Volume II

Industry Statistics

Part 1.
SIC Major Groups 20-26

1977 CENSUS OF MANUFACTURES



U. S. Department of Commerce
BUREAU OF THE CENSUS

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I. General Background

1. HISTORY OF THE ECONOMIC CENSUSES

General—The economic censuses provide a comprehensive statistical profile of a large segment of the national economy. This program includes censuses of manufactures, retail trade, wholesale trade, service industries, mineral industries, and construction industries. In 1977, these industries accounted for nearly 61 percent of the $1,894.5 billion of the gross domestic product and 70 percent of that originating in the private sector. The principal industry groups not covered were finance, insurance, and real estate; agriculture and forestry; communications; electric, gas, and sanitary services; and transportation. Limited information on transportation is collected, e.g., truck registration and distances travelled, and shipments of commodites by type of transport and distance shipped.

Uses and users of census data—The economic censuses are the primary source of facts about the structure and functioning of a major part of the economy. They are used extensively in compiling the benchmark measures of the national accounts. Census data also serve as weights or benchmarks for indexes of industrial production, productivity, and price; as well as many current surveys of industrial activity.

There is widespread use of the economic censuses, by the Government, in setting economic policy and monitoring economic programs. Manufacturers and distributors rely on census data to measure their potential geographic and industrial markets. The censuses provide the facts needed for economic forecasting; analysis of sales performance; the layout of sales territories; the allocation of advertising budgets; and the location of plants, warehouses, and stores. Trade and professional associations rely on census information to determine how their industries are changing; chambers of commerce and State and local governments depend on them to assess changes in the business structure in their areas. Business magazines and academic researchers rely on census facts as background for many of their articles.

Census reports are purchased by thousands of business and other users; census data are republished and widely circulated by trade associations, business journals, and the daily press; and census volumes are available in all the major public and college libraries.

History—The first economic type census covered the year 1809, when inquiries on manufacturing were included with the 1810 Census of Population. By modern standards, the results of this

pioneer effort would be considered unsatisfactory.[1] However, continued interest in the Nation's economic growth led to successive improvements in economic census-taking during the 19th century. By 1890, the statistical standards and procedures followed in censuses reached a full professional quality.

All of the decennial censuses from 1810 through 1940, with the exception of 1830, included questions on manufacturing. Inquiries on mining first appeared in 1840, and censuses of mineral industries were conducted decennially through 1940. Although some business-related data were collected in 1840, the first census of business was taken for the year 1929. This included retail trade, wholesale trade, and construction; beginning with 1933, selected service trades were covered. Dates of these and other economic censuses from 1809 are shown in table A.

Enterprise statistics—Through the history of the economic censuses, the unit of enumeration has been the establishment—i.e., a single physical location engaged in a specific line of business (for more discussion, see section 8). This unit is best suited for obtaining measures of direct output and input—labor, material, capital, etc. It is also best suited for providing refined industry and geographic tabulations. Statistics measuring overall income and balance sheet data are best collected at the company or enterprise level. In the early 19th century, these two business units were often identical. With the rise of large-scale operations, it became quite common for the large companies to operate separate manufacturing establishments in a number of diverse industries so that today the establishment and enterprise frequently are not the same. Enterprise measures and balance sheet data have typically been provided by the Internal Revenue Service (IRS) in its Statistics of Income and Federal Trade Commission (FTC) in its Quarterly Financial Report of Corporations.

The Bureau of the Census, as a result of the coordinated collection and tabulation of comparable data for several economic sectors in 1954, also developed an enterprise statistics

Table A. **Years Covered by U.S. Economic Censuses: 1809 to 1977**

Year covered	Manufactures	Mineral industries	Fisheries	Construction industries	Retail trade	Wholesale trade	Service industries[1]	Transportation[2]
1809	X	-	-	-	-	-	-	-
1819	X	-	-	-	-	-	-	-
1839	X	-	-	-	-	-	-	-
1840	-	X	-	-	-	-	-	-
1849	X	-	-	-	-	-	-	-
1850	-	X	-	-	-	-	-	-
1859	X	-	-	-	-	-	-	-
1860	-	X	-	-	-	-	-	-
1869	X	-	-	-	-	-	-	-
1870	-	X	-	-	-	-	-	-
1879	X	-	-	-	-	-	-	-
1880	-	X	X	-	-	-	-	-
1889	X	X	X	-	-	-	-	-
1899	X	-	-	-	-	-	-	-
1902	-	X	-	-	-	-	-	-
1904	X	-	-	-	-	-	-	-
1908	-	-	X	-	-	-	-	-
1909	X	X	-	-	-	-	-	-
1914	X	-	-	-	-	-	-	-
1919	X	X	-	-	-	-	-	-
1921	X	-	-	-	-	-	-	-
1923	X	-	-	-	-	-	-	-
1925	X	-	-	-	-	-	-	-
1927	X	-	-	-	-	-	-	-
1929	X	X	-	X	X	X	-	-
1931	X	-	-	-	-	-	-	-
1933	X	-	-	-	X	X	X	-
1935	X	X	-	X	X	X	X	-
1937	X	-	-	-	-	-	-	-
1939	X	X	-	X	X	X	X	-
1947	X	-	-	-	-	-	-	-
1848	-	-	-	-	X	X	X	-
1954	X	X	-	-	X	X	X	-
1958	X	X	-	-	X	X	X	-
1963	X	X	X	-	X	X	X	X
1967	X	X	X	X	X	X	X	X
1972	X	X	-	X	X	X	X	X
1977	X	X	-	X	X	X	X	X

- Not published. X Published.

[1]Actual coverage varied from census to census. [2]Limited information only.

[1] For an appraisal of early censuses of manufacturing, see Meyer H. Fishbein, The Censuses of Manufactures 1810-1890. National Archives Publication No. 63-22, June 1963, Government Printing Office.

program. This program relates census company-level data to data measuring the activities of individual operating units or establishments within the companies. Thus, a measurement of the integration and diversification of the American enterprise system became available. The enterprise statistics program also made it possible to link census establishment-based data on a modified basis to enterprise-based statistical systems such as the IRS's Statistics of Income for Corporations.

Legal provisions—The periodic economic censuses are required by law. Title 13 of the United States Code specifies the frequency of the censuses, the kinds of activities to be covered, the obligation to report, the penalties for failure to report, and the confidentiality of returns. It also authorizes the use of sampling techniques in conducting censuses. As amended in 1964, Title 13 requires the economic censuses to be taken at 5-year intervals, covering the years ending in "2" and "7." The next censuses will cover the year 1982 and will include the census of agriculture, which has been customarily conducted on a different time sequence from the other economic censuses. The pertinent portions of Title 13 are quoted in appendix E.

2. CHARACTERISTICS OF THE INDUSTRIAL SECTOR

General—Manufacturing is the largest sector of the economy. In 1977, manufacturing plants employed nearly 20 million persons, or 20 percent of the civilian labor force of 97.4 million. As shown in table B, gross domestic product (GDP) originating in manufacturing averages almost 24 percent of the total. Wholesale and retail trade combined was the next largest sector with 17 percent of the GDP.

Cyclical changes—The need for frequent and comprehensive statistics on manufacturing derives as much from its sensitivity to cyclical influences as from its relative size. Cyclical changes in income originating in manufacturing tend to be relatively larger than in the economy as a whole, as can be seen in the movement of national income originating in manufacturing from 1929 to 1933 to 1939 in table C.

Within manufacturing, durable goods industries accounted for about 60 percent of all manufactures during recent periods. This category tends to be more volatile than nondurable goods,

Table B **Gross Domestic Product, by Industry, for Selected Years: 1947 to 1977**

Industry	1947	1954	1958	1963	1967	1972	1977
	Billions of dollars						
Gross national product[1]	233.1	366.8	449.7	596.7	799.6	1,185.9	1,918.0
Gross domestic product[1]	231.8	364.5	446.6	591.8	793.7	1,175.0	1,894.5
Manufacturing	66.2	106.4	123.8	167.4	222.3	292.5	462.4
Nondurable goods	32.7	45.6	54.1	69.8	88.7	119.3	185.3
Durable goods	33.5	60.8	69.7	97.6	133.6	173.2	276.6
Wholesale and retail trade	44.2	60.9	75.2	96.1	130.1	199.5	322.5
Government and government enterprises	19.3	36.9	47.1	65.9	96.3	155.4	237.2
Services	20.2	30.5	42.3	60.0	86.1	136.5	234.3
Finance, insurance, and real estate	23.2	46.5	62.4	85.3	114.2	169.8	274.0
Contract construction	9.1	17.2	21.0	27.4	37.5	59.4	86.7
Transportation	13.6	18.1	20.9	24.9	32.1	45.6	71.2
Agriculture, forestry, and fisheries	20.8	20.7	21.9	22.0	24.2	35.4	53.8
Electric, gas, and sanitary services	3.8	8.0	10.7	14.9	18.5	28.8	49.9
Communication	3.1	6.5	8.9	13.1	18.0	29.8	49.4
Mining	6.8	10.9	12.4	13.1	14.6	19.0	48.6
Rest of the world[1]	-	-	-	-	-	-	-
	Percent of gross domestic product						
Gross national product[1]	-	-	-	-	-	-	-
Gross domestic product[1]	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Manufacturing	28.7	29.2	27.7	28.3	28.0	25.0	24.4
Nondurable goods	14.2	12.5	12.1	11.8	11.2	10.2	9.8
Durable goods	14.5	16.7	15.6	16.5	16.8	14.8	14.6
Wholesale and retail trade	19.2	16.7	16.8	16.2	16.4	17.0	17.0
Government and government enterprises	8.4	10.1	10.5	11.1	12.1	13.3	12.5
Services	8.8	8.4	9.5	10.1	10.8	11.6	12.4
Finance, insurance, and real estate	10.1	12.8	14.0	14.4	14.4	14.5	14.6
Contract construction	4.0	4.7	4.7	4.6	4.7	5.1	4.6
Transportation	5.9	5.0	4.7	4.2	4.0	3.9	3.8
Agriculture, forestry, and fisheries	9.0	5.7	4.9	3.7	3.0	3.0	2.8
Electric, gas, and sanitary services	1.7	2.2	2.4	2.5	2.3	2.5	2.6
Communication	1.3	1.8	2.0	2.2	2.3	2.5	2.6
Mining	3.0	3.0	2.8	2.2	1.8	1.6	2.6
Rest of the world[1]	-	-	-	-	-	-	-

[1]Gross national product is the market value of goods and services produced by labor and property supplied by residents of the United States. Gross domestic product is the value of goods and services attributable to labor and property located within the United States. It equals GNP less the "Rest of the world" which is the net inflow of labor and property income from abroad.

generally accounting for a smaller percentage of all manufactures during periods of contraction and a larger percentage during periods of expansion. In the early thirties, for example, as shown in table C, durable goods manufacturing fell to only about one-third of the total.[2]

Geographic distribution—In the early and middle 19th century, manufacturing activity was concentrated in the Northeast. Over the past 130 years, as shown in table D, there has been a steady decline in the proportion accounted for by the Northeastern States. Industry expanded into the north central region in the

Table C. **Total National Income and Amounts Originating in Durable and Nondurable Manufactures for Selected Years: 1929 to 1977**

Year	Gross national product[1] (bil. dol.)	Gross domestic product[1] (bil. dol.)	National income without capital consumption adjustment[1] (bil. dol.)	National income originating in manufacturing			Manufacturing as a percent of national income (D÷C)	Durable goods industries as a percent of total manufacturing (F÷D)
				Total (bil. dol.)	Nondurable goods industries (bil. dol.)	Durable goods industries (bil. dol.)		
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1977	1,918.0	1,894.5	1,582.6	411.5	162.9	248.6	26	60
1976	1,718.0	1,697.5	1,413.0	366.6	149.9	216.7	26	59
1975	1,549.2	1,531.9	1,267.4	317.7	132.1	185.6	25	59
1974	1,434.2	1,414.4	1,176.8	301.4	120.6	180.8	26	60
1973	1,326.4	1,310.4	1,094.1	285.3	108.7	176.7	26	62
1972	1,185.9	1,175.0	969.9	252.3	98.3	154.0	26	61
1971	1,077.6	1,068.5	878.1	226.5	92.1	134.5	26	59
1970	992.7	985.4	814.8	215.1	87.7	127.4	26	59
1969	944.0	937.1	780.8	221.9	85.7	136.2	28	61
1968	873.4	866.7	722.7	212.7	81.6	129.4	31	59
1967	799.6	793.7	661.5	193.7	74.8	119.0	29	61
1966	756.0	750.3	627.0	189.7	72.2	117.5	30	62
1965	691.1	685.2	571.1	171.3	65.9	105.4	30	62
1964	637.7	632.3	524.2	154.2	61.3	93.2	29	60
1963	596.7	591.8	488.6	143.8	57.5	86.3	29	60
1962	565.0	560.5	463.4	136.1	55.1	81.0	29	60
1961	524.6	520.7	433.3	125.1	52.7	72.4	29	58
1960	506.5	502.9	420.8	125.1	51.9	73.2	30	59
1959	487.9	484.6	406.8	124.3	51.2	73.1	31	59
1958	449.7	446.6	373.4	107.9	45.8	62.1	29	58
1957	444.0	440.5	371.7	116.3	46.4	70.0	31	60
1956	421.7	418.5	355.7	113.2	46.3	66.9	32	59
1955	400.0	397.3	335.5	108.0	44.0	63.9	32	59
1954	366.8	364.5	307.2	94.7	39.7	55.0	31	58
1953	366.8	364.6	309.0	100.5	40.3	60.2	33	60
1952	348.0	345.7	295.5	92.6	38.3	54.3	31	59
1951	330.8	328.7	281.7	90.3	38.4	51.9	32	57
1950	286.5	284.8	244.0	76.3	33.4	42.9	31	56
1949	258.3	256.9	220.1	64.8	30.6	34.3	29	53
1948	259.5	257.9	226.7	68.8	32.9	35.9	30	52
1947	233.1	231.8	201.0	59.6	28.1	31.5	30	53
1943	192.1	191.6	171.5	58.3	19.6	38.6	34	66
1939	90.9	90.5	73.2	18.1	9.1	9.0	25	50
1935	72.5	72.1	57.6	13.4	7.3	6.1	23	46
1933	55.8	55.5	40.6	7.7	4.9	2.8	19	36
1932	58.3	57.9	43.1	7.3	5.2	2.1	17	29
1929	103.4	102.6	87.2	21.9	10.6	11.3	25	52

[1]Gross national product is the market value of goods and services produced by labor and property of residents of the United States. Gross domestic product is the value of goods and services produced within the United States. National income is gross national product less capital consumption allowances, indirect business taxes, and business transfers plus subsidies less surplus of government enterprises.

Source: Survey of Current Business.

[2]Based on national income rather than gross domestic product (GDP). Industry detail for GDP is available only from 1947; whereas, industry detail for national income is available from 1929 and encompasses the very depressed period of the 1930's.

Table D. **Employment in Manufacturing Establishments by Region: 1849 to 1977**

Year	United States	North-east	North Central	South	West
	Number of employees (thousands)				
1977	19,590	5,008	6,272	5,593	2,717
1972	19,029	5,306	6,135	5,221	2,367
1967	18,492	5,573	6,059	4,553	2,305
1963	16,235	5,190	5,239	3,780	2,025
1958	15,423	5,242	5,017	3,382	1,779
1947	14,294	5,429	5,109	2,710	1,054
1939	9,527	3,879	3,184	1,852	612
1929	10,198	4,246	3,516	1,758	675
1899	5,077	2,629	1,474	793	181
1849	957	696	110	146	4
	Percent of U.S. total				
1977	100	26	32	29	14
1972	100	28	32	27	13
1967	100	30	33	25	12
1963	100	32	32	23	13
1958	100	34	33	22	12
1947	100	38	36	19	7
1939	100	41	34	20	6
1929	100	42	35	17	7
1899	100	52	29	16	4
1849	100	73	12	15	-

Note: Detail may not add to totals because of independent rounding. 1849 data include hand and neighborhood industries, which were excluded from the censuses of manufactures beginning with 1899.

Source: Census of Manufactures.

latter part of the 19th century and, in more recent years, displayed a marked growth in the South and West.

Size distribution—Manufacturing activity tends to be characterized by relative large-scale operations. While there are many small manufacturing plants, they account for a relatively small part of the total output of goods. As shown in table E, over half of the plants covered in the 1977 Census of Manufactures were very small, employing less than 10 workers, but they accounted for less than 3 percent of total manufacturing activity as measured by value added by manufacture. (See appendix A for definition of value added).

Table E. **Number of Establishments and Value Added by Manufacture by Size of Establishment: 1977**

(Cumulative percentage)

Employment size class	Establishments	Value added by manufacture
All establishments	100.0	100.0
1 to 4 employees	40.1	1.0
1 to 9 employees	53.8	2.4
1 to 19 employees	67.6	5.2
1 to 49 employees	82.3	12.2
1 to 99 employees	89.9	20.5
1 to 249 employees	96.0	36.3
1 to 499 employees	98.3	51.0
1 to 999 employees	99.3	65.8
1 to 2,499 employees	99.8	80.1

3. CENSUS OF MANUFACTURES—BENCHMARK STATISTICS

In the farm-oriented economy of the early 19th century, the need for industrial statistics for setting government policy, except for tariffs and taxes, was slight. A few series on physical output of commodities originated either from private sources (flour, iron, steel, etc.) or as a byproduct of tax collection or other government functions (liquors, beer, tobacco products, etc.). The only sources of information on the growing manufacturing sector were the censuses of manufactures, then taken at 10-year intervals. Today, the need for industrial statistics has greatly increased so there is now a vast array of detailed information covering virtually every measurable aspect of industrial activity including employment; payrolls; hours worked; production; prices; inventories; orders; investment in structures, machinery, and equipment; and consumption of raw materials, fuels, and water. Many of these statistics are available at frequent intervals and very promptly after the close of the accounting period. Sophisticated indicators of economic change have also been developed, such as price and production indexes and the gross national product accounts that are published at monthly or quarterly intervals.

The census of manufactures, though conducted only at 5-year intervals, still plays an essential role since no other source measures the structure of the industrial sector in such a comprehensive and detailed way.

For every manufacturing plant with one employee or more, the census obtains data on its input of labor, materials, and capital; its output of products and services; its location; and the legal form of organization of the owning firm.[3]

A set of summary of general statistics are developed for each establishment (that is, total employment, payroll, number of production-worker hours and wages, cost of materials, value of shipments, inventories, capital expenditures, and value added by manufacture) and aggregated by industry, by area, by employment size of establishment, by degree of product specialization within plant, and by type of ownership. Reports are published on the detailed industrial characteristics of each State and large standard metropolitan statistical area (SMSA); and overall measures of manufacturing activity are shown at the county and individual city level provided the information can be published without compromising the confidentiality of individual company data. Since census legislation guarantees confidentiality to the firms that are required to report, it is frequently necessary to suppress some aggregates. Since a significant amount of industry detail cannot be published for the 3,140 counties and county equivalents in the United States, a special computer tape on Location of Manufacturing Plants was developed to provide a complete industry-county cross-section description of manufacturing. This tape includes the number of establishments in each of the 450 industries by county or county-equivalent area, by employment size. Comparison of this complete profile between censuses is used to study shifts in the geographic dispersion of industries and the industrial structure of local areas.

[3] Since 1967, some of this information for 120,000 small companies was not obtained directly but estimated from other government records. See the discussion of coverage of establishments in items 4 and 6.

The census of manufactures also facilitates the conduct of more frequent surveys on a sample basis. In fact, the present legislation specifying that censuses be conducted every 5 years authorizes an annual survey of manufactures (ASM) on a sample basis during the intervening years. The 5-year census provides the framework for selecting a new sample and the periodic universe levels to benchmark the sample estimates. The sample includes about one-fifth of all establishments. All large establishments are included in every sample; the smaller are selected proportionately to their size and are replaced at the end of each census. Thus, there is an annual updating of the census of manufactures in terms of broad measures of economic activity. The ASM contains the same basic measures of economic activity of the plant such as employment, payrolls, value of shipments, value added by manufacture, as does the census of manufactures, but obtains less detailed information on products, materials consumption, and equipment.[4]

The census of manufactures also is used to update other indicators of economic activity, especially the national income accounts. Census data on materials consumed and product output by industry are basic to the input-output matrix developed by the Bureau of Economic Analysis (BEA) for the manufacturing sector. The Federal Reserve Board's monthly Index of Industrial Production—a key indicator of current economic activity—relies on census industry and product data as benchmarks and weights to sum industries to higher levels of aggregation. The census and ASM also provide benchmarks for hundreds of monthly and quarterly surveys of commodity output conducted by the Bureau of the Census, other government agencies, and by manufacturers' associations.

4. INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Structure of the SIC System—The establishments in the census of manufactures are classified according to the SIC Manual. The SIC Manual covers the entire field of economic activities, subdivided as follows:

Industrial division	Title	Major groups
A	Agriculture, forestry, and fisheries	01-09
B	Mining	10-14
C	Contract construction	15-17
D	Manufacturing	20-39
E	Transportation, communication, electric, gas, and sanitary services	40-49
F	Wholesale and retail trade	50-59
G	Finance, insurance, and real estate	60-67
H	Services	70-89
I	Public administration	91-97
J	Nonclassifiable establishments	99

Below the major group level, the SIC provides for 3-digit groups and finally for 4-digit industries. To illustrate—

Division D—Manufacturing

Major Group. . . . . Food and kindred products
Industry group 202 . . . . . Dairy products
Industry 2023. . . . . Condensed and evaporated milk

The SIC system was developed to classify establishments as distinguished from similar systems used to classify companies or enterprises. An establishment is defined as a single physical location engaged in one of the industry categories of the SIC. (See pp. 1-9 for the application of this definition to collecting data in the economic censuses.)

This SIC system is the responsibility of an intragovernmental technical committee headed by the Office of Federal Statistical Policy and Standards, formerly part of the Office of Management and Budget, but transferred to the Department of Commerce in 1977. The system is used by all Federal Government agencies engaged in the classification of establishments. Many State and local governments and business concerns also organize their own records along SIC system lines in order to facilitate comparison with federal statistics.

The first SIC Manual was issued in 1939. For the manufacturing sector, the nucleus was the set of industry classifications developed over many years for use in the census of manufactures. A revised manual was issued for the manufacturing industries in 1945 and with minor modifications, used in the 1947 and the 1954 Censuses of Manufactures. In 1957, the SIC Manual was extensively revised for manufacturing industries and the historical comparability of some data was seriously affected. The introduction and appendixes to the 1958 census volumes discuss in detail this revision and its effects on census series. Only minor revisions of the SIC Manual were made between 1958 and 1967. The next extensive revision of the SIC Manual affecting the comparability of industry data was completed in 1972. These revisions and their impact on comparability appear in appendix C of the 1972 Census of Manufactures volumes.

Structure of the Manufacturing SIC System—For manufacturing, there are 20 2-digit SIC Major Groups (20 to 39) which are subdivided in 144 3-digit SIC Groups (201 to 399) and into 452 4-digit industries (2011 to 3999). The Bureau of the Census combined some small industries in order to publish data.

Most of the 452 manufacturing industries are defined in terms of specific groups of related products. Usually the products are made of similar materials and by similar processes and many are competitive but the SIC system does not necessarily bring together products which are close substitutes

[4] Since the ASM is based on a sample, the cross-classifications by industry and by area are fewer than in the census of manufactures. At the U.S. level, statistics are published in the annual survey for practically all of the 450 industries. However, at the SMSA level, statistics are published only for 3-digit and 2-digit industry groupings. At the county level, information is published for about 10 percent of the 3,140 counties and equivalent areas. These 300 odd counties are the larger ones in terms of manufacturing activity and account for about 80 percent of total manufacturing employment. Data for cities are shown for those cities having over 20,000 manufacturing employees.

in use and competitive in markets. In determining the boundaries of industries,[5] it is essential that each industry comprise a group of establishments that are highly specialized in making products that define the industry (primary products) and that a large proportion of all the products be made in establishments classified in the industry. While similarity of product is most frequently the determining factor in defining an industry, some industries are defined in terms of the processes or equipment used regardless of the final product of the establishment. (Example: Industry 3361, Aluminium Foundries (castings).) A small number of industries are basically defined by material used as well as final product of the plant. (Example: Industry 2521, Wood Office Furniture, and Industry 2522, Metal Office Furniture.)

There are wide differences among industries in their purity—i.e., the extent to which the establishments classified in the industry

a. Account for the total production of commodities "primary" to the industry.
b. Produce products or services "belonging" to other industries (that is, secondary products).
c. Use similar materials or processes.

These variations are frequently construed to be shortcomings. However, these limitations in the classification structure arise from the inherent complexity of our economic system and from the variation in types of production that take place in individual establishments.

While the SIC system is the basis for aggregating census data, the data collected, in turn, provide the statistical basis for periodic critical evaluation of that classification system and its revision.[6]

No general-purpose system of industrial classification can satisfy all users of census data. Some business users are interested primarily in a narrow range of products which they and their competitors produce. Others are involved in a wide range of products that move through the same marketing channel. Others seek data relating to the consumers of one or more types of materials. Some are interested only in the data for highly specialized plants; others for plants producing a "full line" of products. Those studying productivity may require data for plants using the same techniques.

The large number of SIC industries provides the analyst with the "building blocks" for making useful approximations, even if specific data cannot be developed to resolve many of these problems. A single general-purpose system of classification can only partially satisfy these diverse needs; a point is soon reached at which the adaptation of a system to serve one use better will reduce its ability (sometimes disproportionately) to serve an alternative use.

Accordingly, users of data frequently reqroup detailed SIC industries differently from the 2- and 3-digit SIC categories. The Federal Reserve Board for many years has made combinations to stress such characteristics of products as durable, nondurable, consumer, producer, finished, intermediate goods, etc. Other public and private agencies also recombine the detailed classes. The 4-digit industries are more susceptible to allocation to such categories than the 2-digit SIC groups.

Subindustries—The Bureau of the Census frequently has further classified some of the basic 4-digit SIC industries into "subindustries." Subindustries are employed where there are wide disparities in the input-output relationships (or operating ratios) of the plants in the industry because of differences in the degree of vertical integration, technology, methods of distribution, geographic location, types of materials used, etc. In about 61 manufacturing industries, subindustries were established for editing purposes and many were regarded as significant enough to be used for publication. For example, the bakery industry (SIC 2051) is subdivided into wholesale bakeries, chain-store bakeries, home-service bakeries, and retail multioutlet bakeries; and many apparel industries (major group 23) are subclassified into manufacturers, contractors, and jobbers.

To provide a further measurement of variations with 4-digit industries, the Bureau of the Census also subclassified establishments by the degree to which they produce the primary products or specific classes of primary products of the 4-digit industry into which they are classified. This is, in effect, a subindustry classification based on the degree of product specialization which is published in table 5a in the industry statistics chapters.

Definition of manufacturing—Manufacturing includes a wide range of activities as defined in the SIC Manual. Manufacturing is the mechanical or chemical transformation of inorganic or organic substances into new products. The assembly of component parts of products is also considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills, which characteristically use power-driven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfer to other plants of the same company, or to the order of industrial users. Typically, manufacturers do not sell directly to the household consumer, although some (for example, baking, milk bottling, etc.) sell, chiefly at retail, to household consumers through the mail, through house-to-house routes, or through salesmen. Some service-type activities (enameling, binding, platemaking, etc.) are included in manufacturing if they are performed primarily for trade; but are considered nonmanufacturing if they are performed primarily to the order of the household consumer. On the other hand, some manufacturing industries include business firms which perform only the entrepreneurial functions

[5] Frequently, business analysts and other data users look at a group of products from more than one point of view. For example, modern high-speed computers are classified as office machines. This describes the purpose of the product. In a physical sense, however, such computers would be described as electronic devices. Similarly, paper bags, wooden boxes, glass bottles, tin cans, and steel barrels may all be classified as containers, or they may be individually grouped with other products of similar materials, such as converted paper products, wood products, glass products, etc.

[6] See Industry Classification and Sector Measures of Industrial Production by James W. McKie, Bureau of the Census Working Paper No. 20, 1965, and Historical Comparability of Census of Manufactures Industries, 1929-1958 by Harold T. Goldstein, Bureau of the Census Working Paper No. 9, 1959.

of buying the materials and designing and marketing the product, but have the actual production done on contract (for example, apparel jobbers).

SIC classifies establishments—The SIC system is an establishment classification system, and the census of manufactures is conducted on an establishment basis. That is, a company with operations at more than one location is required to submit a report for each location. On the other hand, a company engaged in distinctly different lines of activity at one location is required to submit a separate report for each activity if the plant records permit such a separation and if the activities are substantial in size.

The requirement that distinct lines of activity at the same location be separately reported was applied only where the establishment produced and shipped significant amounts of products classified in different SIC industries. In widely varying degrees, many manufacturing establishments make products that fall into different SIC industries. Generally, the amounts involved are not significant enough to warrant the filing of separate reports, even if feasible. However, there are a number of locations at which large numbers of employees are engaged in activities defined in different industries of the SIC system. Frequently, companies organize their operations and their records separately for the diverse activities and report them as separate plants. When they do not do so on their own initiative, the Bureau of the Census requests separate reports if it appears that 100 or more employees are involved in each activity. For the most part, companies have cooperated and "split out" the different activities which would otherwise significantly distort the relationship of the industry and product statistics. Not infrequently, however, the two groups of products are made on the same production lines by many of the same employees and cannot be distinguished sufficiently in company records to provide establishment-type reporting.

The SIC system also recognizes special situations where otherwise separately classifiable activities frequently occur at one location. For example, the definition of Industry 2421, Sawmills and Planing Mills, recognizes that sawmills may include logging operations. Similarly, pulpmills operated in combination with papermills are included in one report.

Establishments included in census of manufactures—For the 1947 Census of Manufactures, the censuses have included only establishments with one employee or more. Prior to 1947, different criteria were used to determine if an establishment had to report in the census. In the censuses of 1921 through 1939, establishments with less than $5,000 value of products were excluded. For 1899 to 1919, the limit was $500. The change in the minimum-size criterion to an employment basis in 1947 did not appreciably affect the overall comparability of earlier census figures, except for the number of establishments.[7]

A sample survey of manufacturing plants with no paid employees was conducted in conjunction with the 1958 census. While there were nearly 52,000 establishments in this category in that year, they accounted for only about one-quarter of 1 percent of the total value of shipments of all manufacturing industries. The proportion was higher for certain industry groups such as lumber and wood products, and printing and publishing. Tabulation of IRS data for 1977 indicates that manufacturers with no paid employees continue to be of very minor importance. They contribute less than one half of 1 percent of the total value of shipments of all manufacturing industries.

Special treatment of very small establishments—Beginning with the 1967 census, an effort was made to relieve the very small establishments from the necessity of filing a census report. Approximately 120,000 small single-unit manufacturing firms identified as having less than 10 employees benefited from this procedure. Limited data on payrolls, sales, and industry classification from the administrative records of the Social Security Administration (SSA) and the IRS were made available to the Bureau of the Census for use in the 1967, 1972, and 1977 economic censuses. (These special arrangements safeguarded the confidentiality of both tax and census records.) Data other than payrolls and sales for these small establishments were estimated from historical industry ratios. The effect on industry aggregates is slight in most industries; for manufacturing as a whole, these small "administrative records" account for only 1.2 percent of the value added. Detailed product and materials data for these small establishments were not estimated; the entire value of product shipments and cost of materials was imputed to a "not specified by kind" (n.s.k.) category. If these establishments had been included in the 1972 Census of Manufactures, they were assigned the industry classifications to which they had been coded. If they had started business later, they were coded on the basis of brief descriptions of the general activity of the establishment as reported to the SSA. Where the description is incomplete or there are relatively fine lines of demarcation between industries or between manufacturing and nonmanufacturing activity, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product information. Therefore, the Bureau of the Census conducted a special classification survey in order to clarify the industry codes of some of the establishments in the adminstrative record file. All establishments without specific 4-digit codes and those where there could be significant misclassification between manufacturing and other sectors were sent such a questionnaire. Nevertheless, the total establishment counts in most industries should be viewed as approximations rather than precise measurements. The counts for establishments with 20 employees or more are far more reliable than the total number of establishments.

Auxiliary units—Manufacturing requires a wide range of diverse support activities. These activities include movement to the manufacturing plant, storage, the operation and maintenance of plant and equipment, the design of flow of work through the production process, and necessary arrangements for shipment of output to customers. Also included are a host of subsidiary activities associated with the operation of an establishment (for example, management and policy formation, product and market orientation, engineering and quality control,

[7] This point is discussed at greater length in the Introduction to the 1947 volumes.

recordkeeping and accounting, physical security of plant and equipment, and the like).

Support and subsidiary activities may be performed by personnel located at the manufacturing establishments or at a separate location serving one or more manufacturing locations of the same company. These separate locations are referred to as administrative offices and auxiliaries, where these activities are carried on at a different physical location or are performed for more than one plant, they are excluded from the figures for operating manufacturing establishments and are included in the data shown for administrative offices and auxiliaries. (See the description of the questionnaire used for these establishments, form NC-X6, in item 7.)

Border-line activities—The following types of activities, while having some of the characteristics usually found in manufacturing, are considered as nonmanufacturing and, therefore, are excluded from the census:

a. Processing on farms when the raw materials are grown on the farm and the manufacturing activities (poultry dressing, milk and butter production, logging, etc.) are on a small scale without extensive use of paid labor. Also custom milling, egg hatching, cotton ginning, and similar activities closely associated with agriculture are excluded.
b. Mineral preparation such as the crushing, screening, and concentrating of ores. However, mining performed as a secondary activity in conjunction with manufacturing is included in the census unless a separate report for the mining activity was filed; for example, stone and clay mining at cement, lime, and clay products plants.
c. Custom work to the individual order of household consumers. Examples are custom tailoring, woodworking, lettering on monuments, setting of diamonds, and the making of orthopedic appliances.
d. Repair and other service activities, except specified services performed "for the trade." Repair shops of railroads are also excluded.
e. Production of coke "for own use" by establishments owned by public utility companies.

Census establishment-based data measures manufacturing as primary activity. In the census of manufactures, no attempt is made to measure the extent of manufacturing at locations which are not primarily manufacturing plants, such as retail establishments which sell most of their products on the premises directly to household consumers (retail bakeries,[8] ice cream stores, etc.), or manufacturing by construction contractors at the site (for example, production of paving mixtures).

Conversely, it is not unusual for manufacturing establishments to engage also in some nonmanufacturing activities such as repair work, merchandising of products without further processing, and installation work. Ordinarily, these nonmanufacturing receipts are small in relation to the manufacturing activities and, therefore, it is not difficult to determine that the establishments should be included in the manufactures area. However, if the nonmanufacturing activities account for a signifcant proportion of total receipts of an establishment, the classification of that establishment into the appropriate major economic sector is more difficult.

In the economic censuses, an establishment engaged in a combination of manufacturing and merchandising is assigned either to the manufacturing or the trade industries depending on which of these activities was estimated to account for the larger share of its "value added" or "income produced." This criterion, even though based on approximation, was considered preferable to treating each dollar of receipts from each type of activity equally in determing the primary industry, since manufacturing requires considerably more worker-hours, salaries and wages, and capital inputs per dollar of receipts than either wholesaling or retailing. However, in classifying establishments engaged in manufacturing and also in mining, repair work, installation, construction, or other nonmanufacturing services, dollar receipts were used as the basis of classification because these activities require substantially comparable input per dollar of receipts.

Product codes—The SIC coding system is designed to describe industries and operates in such a way that the definitions become progressively narrower with successive additions of numerical digits. There are 20 very broad 2-digit groups, 144 3-digit groups, and 452 4-digit industries. Based on the SIC Manual, the Bureau of the Census has developed a product coding system along similar lines which contains about 1,500 5-digit product classes and approximately 13,000 individual 7-digit products. (See "the classification of products and materials" below.) The 7-digit products and 5-digit product classes are considered the primary products of the industry with the same first four digits as the product code. For example, the 7-digit product code number 2023212 refers to canned evaporated milk. The first five digits of this code number, 20232, refer to the "product class" canned milk, and the first four digits, 2023, refer to the industry in which these products are made (the condensed and evaporated milk industry). The same system is applied to the coding of materials. The first four digits of a material code (for example, the code number 024111, whole milk used as a material) describe the industry that produces it; e.g., 0241, agricultural industry, dairy farms.[9]

This SIC-based system is simpler than other systems for the coding of industrial products and materials used, since there is a direct numerical relationship between commodities and industries. Complications occur in the few SIC industries defined in terms of processes or equipment used as well as products made. As an example, women's sweaters are produced in knitting mills (industry 2253) and also in cut-and-sew shops (industry 2339). To retain the industry-of-origin concept, therefore, it is necessary to assign different product code numbers to women's sweaters, depending on where they are made.

The SIC-based commodity classification is used in the Bureau of the Census' entire industrial statistics program, including

[8] Separate data for retail bakeries with baking on the premises were included in the retail census publications.

[9] See tables 6a and 7 in volume II.

monthly, quarterly, and annual surveys, and also in the census of wholesale trade. The Bureau of the Census also publishes data on imports and exports in terms of SIC-based categories as well as the traditional Schedule B and TSUSA systems.[10]

Primary and secondary products of establishments shown in the industry statistics chapters—An establishment is classified in a particular industry if its production of the primary products of that industry exceeds in value its production of products of any other single industry. The industry code assigned to the establishment is derived from a summation of values for 7-digit product codes to their 4-digit industry and the selection of the largest 4-digit value as the establishment's industry classification. However, as mentioned earlier, the industry classification of an establishment may be determined not only by the products it makes but also by the processes employed or materials used in making those products.

While some establishments produce only the primary products of the industry in which they are classified, it rarely happens that all the establishments in an industry specialize to this extent. Therefore, the general statistics (employment, payrolls, inventories, value added by manufacture, total value of shipments, capital expenditures, etc.) shown for a industry (tables 1 to 4), encompass not only the primary activities of the establishments in that industry but also their secondary activities. On the other hand, the product statistics in tables 5a and 6a measure the total output of specific products whether they are produced by establishments classified in the same industry as the product or not. For this reason, in relating the general statistics of an industry, especially the industry total value of shipments (tables 1 to 4), to the product statistics (table 6), the composition of the industry's output as shown in tables 5b and 5c should be considered. Table 5c is a matrix table in which the columns break down industry shipments into primary and secondary products and "miscellaneous receipts." The rows of the table show the amount that each industry produced of a given product class.

The extent to which industry and product statistics may be matched with each other is measured by the two ratios shown in table 5b which are computed from table 5c. The first of the ratios, called the primary product specialization ratio, is the proportion of product shipments (both primary and secondary) of the industry made up of primary products. The second, defined as the coverage ratio, is the proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

Degrees of integration—In many industries, establishments use a wide variety of processes and materials to make the products of the industry. An industry classification based on end products may include establishments which are vertically integrated and those which put only the finishing touches on an already highly-fabricated purchased item. For example, in the refrigeration industry, there are some establishments that are almost completely integrated, producing the compressor and condensing unit, electric motor, and even the castings for those intermediate products, as well as the stamping of the case and the final assembly. In other plants, the condensing unit, the motor, and the case may be purchased and merely assembled into the finished product.

In some instances, nonintegrated plants have been placed in separate industry categories from the integrated plants. In many industries, the census provides separate statistics on departmental operations or on the production of intermediate commodities made and used in the producing plant. When an industry includes plants which ship a significant proportion of their output to other plants of the same company, separate figures are usually shown on the interplant transfers.

These differences in the integration of production processes, types of operations, and types of materials used, should be taken into account when relating the general items (employment, payrolls, value added, etc.) to the product and materials data. Where integrated operations are of consequence in an industry, that fact is pointed out in the explanatory text.

Industry code resistance—The production of many establishments is so evenly divided among two or more industry-determining product groups that the industry codes could change from year to year (industry codes can be based on less than half of the total value if there are three or more groups). In the ASM, plants had always been prevented from shifting back and forth among industries due to minor shifts in product mix in the years between censuses by the application of a "resistance formula" in assigning industry classifications. In census years, such resistence was not applied.

A resistance formula of the ASM type was first used in the 1963 Census of Manufactures. In the 1977 census, the formula was applied only to establishments included in the 1976 ASM sample panel with certainty (that is, included with a probability of "1"). In general, these certainty cases were establishments of companies with at least one manufacturing plant with 250 employees or more.

The formula recognizes the conflicting need to maintain continuity in the establishment composition of an industry to measure change and the need to allow establishments to be reclassified to measure the current composition of the industry.

In the 1977 census, the industry classification of a certainty establishment was allowed to change from that assigned in 1976 under one of the following conditions:

a. The value of the 1977 primary products constituted 60 percent or more of its total value of product shipments.

b. The value of the 1977 primary products, while less than 60 percent of the total, was at least twice the value of products which had determined the 1976 industry code.

c. The value of the 1977 primary products, while not meeting either of the two above conditions, had been the largest group of products for at least two years, i.e., exceeded the value of the 1975 primary industry's products in both 1977 and 1976 by at least 20 percent.

[10] Schedule B is the U.S. export classification while TSUSA is applied to imports.

Table F. **Value Added by Manufacture for Regions, Divisions, and States: 1977**

Region, division, and State	Value added by manufacture (million dollars)	United States, total (percent)
United States[1]	585,165.6	100.0
Northeast Region	138,746.4	23.7
New England Division	35,586.9	6.1
Maine	2,343.0	.4
New Hampshire	2,174.7	.4
Vermont	1,050.1	.2
Massachusetts	16,348.6	2.8
Rhode Island	2,736.6	.5
Connecticut	10,933.9	1.9
Middle Atlantic Division	103,159.5	17.6
New York	44,289.8	7.6
New Jersey	22,852.8	3.9
Pennsylvania	36,016.9	6.2
North Central Region	200,889.8	34.3
East North Central Division	160,223.4	27.4
Ohio	43,054.7	7.4
Indiana	22,717.6	3.9
Illinois	40,279.1	6.9
Michigan	37,566.0	6.4
Wisconsin	16,606.0	2.9
West North Central Division	40,621.3	6.9
Minnesota	9,605.2	1.6
Iowa	8,684.4	1.5
Missouri	13,041.9	2.2
North Dakota	473.3	.1
South Dakota	611.6	.1
Nebraska	2,867.1	.5
Kansas	5,337.8	.9
South Region	160,581.7	27.4
South Atlantic Division	72,304.3	12.4
Delaware	1,595.7	.3
Maryland	7,115.6	1.2
District of Columbia	610.2	.1
Virginia	10,882.0	1.9
West Virginia	3,880.2	.7
North Carolina	18,230.6	3.1
South Carolina	8,186.1	1.4
Georgia	12,548.8	2.1
Florida	9,255.1	1.6
East South Central Division	36,234.3	6.1
Kentucky	9,545.7	1.6
Tennessee	12,663.4	2.2
Alabama	8,405.9	1.4
Mississippi	5,619.3	1.0
West South Central Division	52,112.5	8.9
Arkansas	4,881.6	.8
Louisiana	9,418.3	1.6
Oklahoma	4,662.3	.8
Texas	33,150.3	5.7
West Region	84,910.6	14.5
Mountain Division	13,620.4	2.3
Montana	847.3	.1
Idaho	1,430.0	.2
Wyoming	380.8	.1
Colorado	4,471.8	.8
New Mexico	733.5	.1
Arizona	3,332.9	.6
Utah	1,974.0	.3
Nevada	495.2	.1
Pacific Division	71,245.1	12.2
Washington	8,955.0	1.5
Oregon	6,138.0	1.0
California	54,862.4	9.4
Alaska	504.2	.1
Hawaii	785.5	.1

[1]Total value added differs slightly from summation of the individual States since a few establishments that could not be accurately coded to a State are included in the United States total.

5. GEOGRAPHIC CLASSIFICATION

Census divisions and regions—The 1977 Census of Manufactures measures industrial activity at the State, county, city, and standard metropolitan statistical area levels. In prior censuses, similar information was also provided for the traditional nine geographic divisions (e.g., New England, Middle Atlantic, etc.) and the four geographic regions (northeast, south, north central, and west).

The presentation of data for individual industries and industry groups at all these geographic levels has always created serious problems in protecting the confidentiality of individual company data. Consequently, it has frequently been necessary to set priorities as to what will be published (see item 21). In the past, the preference was given to publishing data for the broad geographic regions over States leading to greater suppression of industry detail at the State level. In recent years, there has been increasing interest in State information in preference to the broader regions. As a result, the 1977 Census of Manufactures gave first precedence to publishing State figures. A decision was also made to forego publication of any divisional and regional totals. This was desirable to avoid suppressing industry detail in one State that could have been published, in order to protect data for another State in the same division, that had to be suppressed to preserve the confidentiality of a respondent's figures.

Thus, some summary tables for the nine geographic divisions and four regions that were published in prior censuses do not appear in Volume III, Area Statistics, of the 1977 Census of Manufactures. (See table F for 1977 value added data for regions, divisions, and States.)

Standard metropolitan statistical areas—In addition to the data for the legally constituted geographic units (States, counties, and cities), all manufacturing totals are shown for approximately 280 SMSA's.[11] In the 1977 tables, detail for 2-, 3-, and 4-digit industries is shown for an SMSA if data for individual companies would not be disclosed, and the industry had at least 250 manufacturing employees. These are the same criteria as those used in the 1972 census. In censuses prior to 1967, detail had not been shown for SMSA's with under 40,000 total manufacturing employment, and only industry group figures were shown for SMSA's with 40,000 to 190,000 employees.

SMSA's are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of

[11] See appendix F for a description of each SMSA.

Table G. **The 50 Largest SMSA's Ranked by Value Added by Manufacture: 1977 and 1972**

Standard metropolitan statistical area	Number of employees (thousands)	Value added by manufacture (mil. dol.)	1977 rank	1972 rank	Standard metropolitan statistical area	Number of employees (thousands)	Value added by manufacture (mil. dol.)	1977 rank	1972 rank
Chicago, Ill.	884.3	27,542.1	1	1	Indianapolis, Ind.	124.0	3,922.2	27	26
Los Angeles-Long Beach, Calif.	825.5	24,701.8	2	2	Gary-Hammond-East Chicago, Ind.	98.2	3,517.6	28	30
New York, N.Y.-N.J.	796.6	19,878.3	3	3	Dayton, Ohio	106.5	3,261.0	29	29
Detroit, Mich.	564.6	18,149.9	4	4	Toledo, Ohio-Mich.	92.7	3,203.0	30	35
Philadelphia, Pa.-N.J.	451.8	13,429.6	5	5	Denver-Boulder, Colo.	106.4	3,068.5	31	36
Houston, Tex.	210.1	9,844.4	6	11	Providence-Warwick-Pawtucket, R.I.-Mass.	140.0	3,040.4	32	33
St. Louis, Mo-Ill.	248.7	8,342.0	7	8	Portland, Ore.-Wash.	99.4	2,951.6	33	40
Cleveland, Ohio	265.4	8,105.9	8	7	Columbus, Ohio	96.2	2,969.4	34	32
Newark, N.J.	255.5	7,870.8	9	6	New Brunswick-Perth Amboy-Sayreville, N.J.	80.5	2,945.2	35	31
Dallas-Fort Worth, Tex.	269.9	7,869.1	10	13	Allentown-Bethlehem-Easton, Pa.-N.J.	106.8	2,731.8	36	37
Boston, Mass.	267.7	7,469.1	11	9	Beaumont-Port Arthur-Orange, Tex.	38.3	2,626.3	37	(1)
San Francisco-Oakland, Calif.	193.3	6,817.2	12	14	Youngstown-Warren, Ohio	79.5	2,620.2	38	38
Rochester, N.Y.	144.4	6,732.4	13	10	Grand Rapids, Mich.	82.6	2,582.2	39	41
Pittsburgh, Pa.	239.7	6,478.4	14	12	Phoenix, Ariz.	84.6	2,558.6	40	44
Milwaukee, Wis.	204.1	6,408.8	15	16	Hartford, Conn.	87.0	2,317.0	41	43
Minneapolis-St. Paul Minn.-Wis.	216.9	6,408.0	16	15	San Diego, Calif.	79.1	2,173.9	42	49
San Jose, Calif.	181.4	6,205.7	17	22	Memphis, Tenn.-Ark.-Miss.	64.1	2,159.7	43	45
Cincinnati, Ohio-Ky.-Ind.	160.2	5,645.9	18	17	Greenville-Spartanburg, S.C.	104.8	2,129.7	44	42
Anaheim-Santa Ana-Garden Grove, Calif.	177.5	5,280.9	19	23	Baton Rouge, La.	24.1	2,075.5	45	(1)
Baltimore, Md.	165.9	5,169.5	20	18	Syracuse, N.Y.	57.8	2,017.7	46	48
Buffalo, N.Y.	140.3	4,735.5	21	19	Akron, Ohio	83.5	2,014.2	47	39
Louisville Ky.-Ind.	106.9	4,440.7	22	20	Richmond, Va.[2]	53.4	1,992.6	48	(1)
Nassau-Suffolk, N.Y.	155.9	4,370.3	23	25	Jersey City, N.J.	72.2	1,983.4	49	34
Atlanta, Ga.	128.7	4,222.8	24	27	Nashville-Davidson, Tenn.	80.5	1,935.3	50	(1)
Seattle-Everett, Wash.	131.9	4,161.0	25	28					
Kansas City, Mo.-Kans.	117.8	4,119.9	26	21					

Note: The Flint, Mich., SMSA, falls within the top 50 SMSA's but is excluded from this table to avoid disclosing figures for individual companies.

[1]Not in the top 50 SMSA's. [2]New Kent County added in 1977.

the area.[1,2] Each area (except in New England) consists of one whole county or more. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas for general-purpose use in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's, but on a city and town basis, because towns are regarded as the significant unit in this region of the country.

The requirement that each SMSA consist of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis. Periodically, the SMSA's are redefined. While some changes can be made at any time, if there are serious reasons, the major restructuring of SMSA's occur after each census of population is completed. Appendix F describes the current SMSA's and the changes since 1972.

Each SMSA is designated by the name of the principal city of the area. In addition to the name of the principal city, the areas title may include one or two additional city names.

Value added by manufacture in all SMSA's accounted for 79 percent of the U.S. total in 1977. The relative importance of the 50 largest SMSA's in 1977 and their rankings in the 1972 and 1967 censuses are shown in table G.

[1,2]Each SMSA must include either (1) a city with 50,000 or more inhabitants, or (2) a city having a population of at least 25,000 which (a) with the addition of the population of contiguous places has a population density of at least 1,000 persons per square mile; (b) constitutes, for general economic and social purposes, a single community with a combined population of at least 50,000; and (c) includes a total population of at least 75,000 in the county or counties in which the city and contiguous places are located.

Standard consolidated statistical areas (SCSA's)—In many highly urbanized areas of the country, SMSA's tend to border on one another. For some purpose, it was desirable to treat them as one geographic area and the SCSA's were developed. Each SCSA includes two or more contiguous SMSA's which meet specific criteria of size, urban character, integration, and contiguity of

urbanized areas. As with the SMSA's, the SCSA's are defined by the Federal Committee on SMSA's of the Office of Management and Budget. Their number has increased from two in the 1972 census to 13 for 1977. All manufacturing totals appear in table 4 of each State chapter. Data for 2-, 3-, and 4-digit industries with 250 manufacturing employees or more are published in table 6.

Industrial counties—In addition to industry statistics for SMSA's, table 7 of each State report presents data by county for each industry group (2- and 3-digit) and industry (4-digit) that had at least 450 manufacturing employees if it would not disclose figures reported by individual companies.

Cities with 450 manufacturing employees or more—Summary totals and industry detail at the 2-, 3-, and 4-digit levels are shown for individual cities with 450 manufacturing employees or more, provided the data do not disclose information for individual companies.

II. Methods

6. PLANNING AND PREPARATION

General—The Bureau of the Census has an obligation to meet public needs for timely and reliable information while holding costs and the burden on respondents to a minimum. During the planning stages of each economic census, the advice of trade and professional associations, Federal and State government agencies, individual companies, labor unions, and research and educational organizations is sought in an effort to reach both the users of data and the respondents who supply the basic figures. Simultaneously, the problems encountered in the previous censuses are studied, and improved methods of collection, processing, and tabulation are explored.

Mailing lists—Beginning with the 1954 economic censuses, the basic mailing lists have been obtained from IRS and SSA records. These records were also sampled to develop statistics for retail and service establishments with no employees. After the 1963 censuses, feasibility studies indicated that greater use could be made of the data in the IRS-SSA records. In the 1967 censuses, over 2,000,000 firms were exempted from the filing requirement, including 120,000 small manufacturers. Instead, census-type statistics for this group were developed from IRS-SSA records. In close cooperation with IRS and SSA, specific procedures for the use of individual tax returns that assured confidential treatment of them were developed and set forth in Executive Order No. 10911, dated January 17, 1961, and Treasury Decision No. 6547 of the same date. The records used were business income tax returns (IRS forms 1040C, 1065, 1120, and 1120S) and payroll tax returns (IRS form 941). The name and address, payrolls, and gross business receipts were obtained from these reports, in addition to the SIC industrial activity code assigned by SSA. Other census statistics for these small firms were imputed using industry average ratios of the data item to payrolls and sales.[13]

This procedure was repeated in the 1972 and 1977 economic censuses. In 1972, there was a concerted effort by the Bureau of the Census to improve the industry coding of the administrative record by mailing a nature-of-business inquiry to establishments whose industry codes could have been affected by the 1972 revision to the SIC Manual. A similar effort was made in 1977 to clarify the classification of firms which SSA had not been able to code precisely.

Content of questionnaires—As in previous censuses, the content of the 1977 questionnaires was developed in consultation with a large number of organizations and individuals, representing both the manufacturers who supply the data and those who use the statistics. Those consulted included Government agencies, individual firms, labor unions, the American Statistical Association, the American Economic Association, the American Marketing Association, the National Association of Manufacturers, and all National Manufacturers' Associations covering specific industries.

Many individual manufacturers and their trade associations were consulted about the content of the sections of the report forms dealing with the output of specific products. Drafts of the proposed 1977 product sections were circulated among 800 trade associations and about 4,000 manufacturing companies, both large and small. These draft report forms included new product detail reflecting suggestions received by the Bureau of the Census after the 1972 canvass. Small items (those valued at $7.5 million or less) were not retained in the list unless they were needed to assure correct classification of other products or were of strategic importance. A restriction was placed on proposals for additional detail; it was stipulated that the 1977 value of any new product category should exceed $20 million. The manufacturers were requested to comment specifically on the availability of the data requested in their ordinary records, and the appropriateness of the product descriptions and units of measure.

The thousands of comments and suggestions received in this clearance procedure and the decisions reached were forwarded to the Office of Federal Statistical Policy and Standards, along with the product sections developed by the Bureau of the Census as a result.

A final review was made by the Office of Federal Statistical Policy and Standards with the assistance of the Advisory Council on Federal Reports. The latter organization is a group of business executives such as controllers, economists, and market research directors, representing a cross section of all industries.

[13] As discussed elsewhere in this introduction, the amount of imputation introduced by this procedure was only about 1 percent of the overall totals.

7. REPORTING FORMS

A representative selection of the reporting forms used in the census is reproduced in appendix D. The users of each of them are discussed below.

General forms—These forms were used in the economic censuses, generally, either as companywide reports or as reports for establishments whose classification was not known precisely in advance of mailing.

NC-X1, Report of Company Organization—This companywide report was used prior to mailing the 1977 census questionnaires to develop the directory of establishments operated by multiunit companies. A more detailed account of their use is given in Section 8, The Mailing Lists.

NC-X2, Listing of Additional Establishments—This form was included with the census of manufactures forms mailed to multiestablishment companies in order to obtain a list of establishments that were acquired after the NC-XIA was filed. These additional plants were classified, added to the NC-X1A directory list, and mailed the appropriate 1977 economic censuses report forms. Plants under construction but not in operation were requested to report the value of construction put in place during 1977 and the total gross book value of assets in place at the end of the year.

NC-X3, General Schedule—This questionnaire was designed to obtain information from small companies for which the industry code available in the SSA records was not precise enough to indicate which one of the standard census questionnaires should be mailed. The information provided on form NC-X3 was used to classify these companies by industry and tabulate their data in the appropriate census.[14]

NC-X6, Administrative Offices or Auxiliary Establishments—Many multiunit companies maintain separate establishments to provide centralized administrative management, or other supporting services for other establishments of the same company, but not for the general public or other companies. They were asked to complete form NC-X6 for those establishments. The form contained questions on the approximate number of employees engaged in such functions as centralized administration, research and development, warehousing, and other auxiliary activities, and on the cost of research and development work performed by these nonmanufacturing establishments. The respondent was also asked to describe the industry activity of the operating establishments serviced by the centralized office or auxiliary unit reporting on form NC-X6.

NC-K1, Company Summary Report—Each multiunit company with 250 employees or more received a form NC-K1, Company Summary Report, in addition to a specific questionnaire for each establishment. The NC-K1 requested consolidated company totals for receipts, new capital expenditures, inventories, and fixed assets, which are published as part of the Bureau of the Census' Enterprise Statistics Program described in section I.

Census of manufactures forms—The questionnaire reproduced in the appendix, form MC-36B, is typical of the approximately 200 forms used for operating manufacturing establishments. Each of these forms was designed to be used for a specific group of industries. Since it is desirable to retain comparability in the annual survey of manufactures for establishments reporting in the sample, form MA-100 was substituted as the front sheet of the census form (e.g., MC-36B) to collect the information common to all industries. Whether or not form MA-100 was used, the inquiries on the 200 forms were identical except for the detailed questions on products shipped, materials used, and miscellaneous topics such as operations performed, equipment used, and delivery of products.

Short forms—Some industries include a large number of small- to medium-sized firms that account for a significant portion of the industry's output. Usually, these firms are not so small that the limited data in the administrative record files would meet the needs of the census. To obtain sufficient data, yet hold the reporting burden down for these smaller firms, special abbreviated short forms were designed. They obtain the key input and output statistics without the detail requested on the standard forms. A sample form is included in appendix D.

Annual survey of manufactures forms—Form MA-100 is the establishment report used in the ASM since 1949 (with modifications). The establishment's 1976 data were imprinted on the report form before mailing, thus aiding the respondent in following the instructions for the census. Item 11-A, "value of products shipped and other receipts," on form MA-100, corresponds to item 18 on the census forms such as MC-36B.

In years between censuses, the ASM collects data for broad classes of products; whereas, every 5 years, in the census, item 18 calls for information or individual product shipments.

Other related forms—Form CB-50F, Census of Distributive Trades Electrical Goods, which is reproduced in appendix D, is typical of the several forms used for wholesale establishments in the census of business. Some manufacturers operate their own wholesale establishments which the Bureau of the Census classifies as "manufacturers' sales branches and sales offices." The wholesale forms differed only in the kinds of products sold as listed in item 10. Item 18 provides the information needed to classify the establishment as a sales branch or sales office.

MC-171, Department of Defense Establishments, and MC-D4, Penal Institutions—These forms were used to collect information on government-owned and government-operated manufacturing establishments. They were used for two types of establishments:

[14] The use of form NC-X3 is also discussed in item B, Mailing Lists.

a. Manufacturing facilities owned and operated by the Department of Defense.
b. Prison industries (Federal, District of Columbia, and State).

The data were prepared with the cooperation of the Department of Defense, the Department of Justice, and the District of Columbia and State prison systems. For Department of Defense installations, information was provided on employment, worker-hours, payrolls, cost, and value of work done, by industry group and by State. For prison industries, however, only product data were requested. The data are presented in a special report included in volume I and are not included in the totals for operating manufacturing establishments.

8. MAILING LISTS

General—As discussed in item 6, the list of respondents for 1977 was obtained from IRS-SSA records. Since the IRS-SSA lists consist essentially of the names and addresses of companies rather than establishments,[15] it was necessary to follow separate procedures for multiunit companies (those operating at more than one location).

The precanvass—Multiunit companies were required to file at least one establishment report[16] covering each location. In order to mail the appropriate questionnaires, it was necessary to determine the type of activity at each location operated by multiestablishment companies. The Bureau of the Census has conducted an annual update of its directory of establishments operated by large companies in which Report of Company Organization (form NC-X1)[17] is mailed each year to multiunit companies.

All of these forms consist of a report on company affiliation and a list of the domestic establishments operated by the company. The company's establishments as identified in census records are prelisted and the respondents are asked to correct this list. They are also asked to describe new establishments not prelisted and indicate their approximate size.

Large multiunit companies are segregated for special handling because of possible overlaps and duplication. Many of these companies are active in retail and wholesale trade as well as in manufacturing. The reporting instructions are reviewed in discussions with officials of the accounting departments of many of these firms to make certain that the procedure is understood and the establishments are properly described on form NC-X1.

Single-unit companies—The mailing lists for single-unit companies (those operating at only one location) were developed from an initial control file assembled from IRS and SSA records. Out-of-scope companies (those whose activities were not to be surveyed in the economic censuses) and those identified as multiunits in the multiunit directory were removed. A special survey of out-of-scope companies with more than 50 employees was conducted, in some industries, to make certain they should not be included in the census. Some names were added to the mailing list as a result. Single units with over 150 employees were mailed form NC-X1 to determine if they were multiunits.

The final step was to identify the small companies which were not to be mailed because census-type statistics were to be developed from administrative records. The remaining records constituted the mailing lists for single-unit companies.

General schedule—While these lists generally contained adequate industry information to determine the proper form for mailing, a number of the records did not have precise industry information associated with them. Form NC-X3, General Schedule, which is reproduced in appendix D was mailed to these companies. Since it was assumed that these companies were quite small, only a few key figures were requested. The completed reports were coded and included in the tabulations. If form NC-X3 indicated that the company was actually large, it was later requested to file one or more of the appropriate standard questionnaires.

9. COVERAGE AND ACCURACY

Since the list of companies obtained from IRS and SSA records was considered to be complete, no field coverage check was conducted. The precanvass and other special procedures for multiunit companies described in item 8, Mailing Lists, and item 11, Data Collection, were designed to secure complete lists of establishments; thereby simplifying the IRS-SSA company list. Control totals, in terms of employment and payrolls of multiunit companies, were also used to verify the completeness of establishment coverage.

It was possible to compare statistics tabulated from the census of manufactures with the Bureau of the Census' Current Industrial Reports Series, or with data originating with other agencies and, thus provide a further confirmation of completeness and accuracy. These figures range from employment and wage totals compiled by the Bureau of Labor Statistics to detailed commodity output figures published by the IRS, the Fish and Wildlife Service, and the Department of Agriculture. In this volume, differences between the census of manufactures and other statistics are explained wherever possible. Census of manufactures comparability with broad measures such as national income, new capital expenditures, and production indexes are discussed elsewhere in this introduction. The Bureau of the Census' other procedures designed to improve the accuracy of the census data are discussed above in the items on data collection and processing.

[15] The SSA records for multiunit companies identify "reporting units," which in many instances correspond to census establishments. The differences are such, however, that it was found necessary to obtain up-to-date lists of establishments as described in this section. Also, the Bureau of the Census concept of a company differs from the IRS-SSA definition, since the census company includes all establishments under common ownership or control. In the IRS-SSA records, subsidiary corporations are often treated as independent companies.

[16] If two or more distinct lines of activity were carried on at one location, separate reports were obtained under some circumstances. (For a complete discussion, see "Establishment Basis of Reporting" in section 4.)

[17] This form is reproduced in appendix D.

A discussion of the valuation of intracompany shipments by multiunit companies is included in item 15.

10. GEOGRAPHIC CODING

Accurate and complete information on the physical location of each establishment is required in order to tabulate the census data by standard metropolitan statistical areas, counties, and cities. As in previous censuses, the post office address and ZIP code of the establishment were not always accepted as defining the physical location, but respondents were required to describe the actual location in terms of street address; city, town, or village; county; and State. For establishments located in rural territory, the name or number of the nearest highway was requested and the distance from the nearest town or other urban place.

In censuses prior to 1963, clerks assigned geographic code numbers to each establishment based on the description furnished by the respondent. This process was slow and required careful verification. Beginning with 1963, a computerized system was developed which assigned an area code number and a prefix symbol to the mailing address before the questionnaires were mailed. The prefix symbol indicated whether or not the mailing address was clearly acceptable as describing the physical location. If there was any question about its acceptability, the respondent's description was later carefully reviewed after the questionnaire was received. The assignment of tentative code numbers by the computer was based on extensive reference files containing nearly a million business names and addresses.

11. DATA COLLECTION

Although the greater use of administrative records in 1977 substantially reduced the number of companies canvassed directly, there remained nearly 2 million which were required to file, including about 205,000 manufacturers. Small manufacturers, for whom the administrative records sufficed, numbered about 145,000. The assembly of several hundred different questionnaires into mailing packages correctly labeled and coded, combined with the correct instruction booklets, was an extensive operation.

Most of the 1977 questionnaires were mailed by mid-January 1978 with a due date of February 15. The collection phase was completed by late July 1978.

Companies which did not return their questionnaires by the due date had to be reminded that their returns were overdue. In all, there were five routine followups. Telephone calls were made to the large companies to help with reporting problems and to request that the forms be completed and returned.

Estimates based on data from administrative records were included in the census tabulations for the relatively small number which had not responded by the closeout date in July 1978. Thus, reported or estimated data for all companies and establishments in the original mailing list (except those determined to be inactive during 1977) were included in the final statistical results. A special effort was made to obtain actual returns from all large firms, so that the dollar volume of business represented by proxy returns was relatively very small.

12. DATA PROCESSING

General—The editing,[18] coding, and tabulation of data for the 5 million establishments represented in the 1977 economic censuses was a complicated task. Automatic data processing and other advanced techniques were used in all phases.

The questionnaires were mailed from and returned to the Bureau of the Census office at Jeffersonville, Ind., where most noncomputer (that is, clerical) processing operations were performed. The returns were screened to identify major problems that could be resolved by routine correspondence with respondents. Acceptable data were placed on a key-to-disc system, and the encoded data sent to Washington, D.C. on a high-speed transmission system. The Washington, D.C. staff handled computer operations and all operations in connection with the use of IRS and SSA records.

Preliminary screening—After they were checked in and assigned geographic codes, the questionnaires were reviewed clerically to see that they conformed to certain minimum requirements before further processing. For multiunit companies, the sum of employment and payrolls reported on its establishment questionnaires was compared with the control totals received on IRS form 941. Questionnaires received on single-unit forms were reviewed to ascertain whether they had become multiunits through merger or acquisition. Questions arising in the screening operation were resolved by writing or telephoning the respondents. Complex problems were referred to the Washington, D.C. professional staff.

Computer editing—As in the 1972 Census of Manufactures, most of the review for consistency among data items and completeness was done on the computer. Average values and tolerance limits for key operating ratios (for example, cost of materials per dollar of shipments, payroll per employee, production-worker wages per hour, etc.) played a fundamental role in the editing process. More than half of all 4-digit SIC industries had one or more data cells changed by more than 5 percent as a result of the application of these programs.

A detailed description of the step-by-step processing procedures appears in the Bureau of the Census publication, History of the 1977 Economic Census. This volume describes the procedures followed in both the centralized overall processing and in the individual censuses such as manufactures.

[18] In data processing, the term "editing" means the review of information collected on questionnaires or from other sources, with the objective of locating and correcting erroneous entries.

III. Comments on Statistical Measures and Tables

(Explanations and definitions of the various measures of activity for which statistics are compiled in the census of manufactures are presented in appendix A. In the following text, the limitations and other characteristics of some of these measures are discussed, the content of the statistical tables is described, and comparisons with other statistical series are presented.)

13. EMPLOYMENT AND PAYROLLS IN ADMINISTRATIVE OFFICES AND AUXILIARIES

In the industry statistics chapters, the data on employment and payrolls are limited to operating manufacturing establishments. In the summary tables and the area reports, the employment and payrolls of administrative offices and auxiliaries are included as well. The report filed for administrative offices and auxiliaries requested a description of the activity of the establishments that they serviced. However, the administrative offices and auxiliaries were coded only to the 2-digit industry group of the establishments they served, whereas the operating establishments were coded to a 4-digit manufacturing industry. In most of the tables with industry detail, the administrative offices and auxiliaries are shown as a separate industry group, but statistics for them by 2-digit industry appear in each volume in the general summary tables. As indicated in table H, the relative importance of administrative offices and auxiliaries has increased substantially in recent years because of a tendency to centralize functions formerly performed in manufacturing plants. Such functions include accounting (particularly where computerized), warehousing repair services, and miscellaneous others.

Table H. **Employment in Administrative Offices and Auxiliaries and in Operating Manufacturing Plants: 1977 and Earlier**

Census year	Employees in operating manufacturing establishments		Employees in administrative offices and auxiliaries		
	Thousands of employees	Percent change from previous census year	Thousands of employees	Percent change from previous census year	Percent of total employment[1]
1977	18,516	+2.7	1,074	+8.0	5.5
1972	18,032	-2.5	994	+19.8	5.2
1967	18,492	+14.0	830	+14.3	4.3
1963	16,235	+5.3	726	+20.6	4.3
1958	15,423	-1.4	602	[1]+32.9	3.8
1954	15,645	NA	453	NA	2.8

(NA) Not available.

[1]The apparent increase from 1954 to 1958 is believed to be somewhat overstated, because coverage of administrative offices and auxiliaries was more complete in the 1958 census.

Source: Census of Manufactures.

14. MATERIALS CONSUMED

Every establishment was requested to report the total cost of materials. In addition, quantity and cost information was collected for approximately a thousand specific materials. About 350 of these were "complete coverage" materials; i.e., every industry that consumed appreciable quantities of the material was canvassed so that the data would aggregate to at least 90 percent of manufacturing consumption. For the remaining materials, information on consumption was obtained only in those industries in which the materials were important inputs. Detailed consumption information was collected in item 17, the standard material inquiry; in item 18, the product inquiry (for items that were produced and consumed in the same plant); and in a few instances in a special inquiry. The resulting statistics are presented mainly in tables 6a and 7a of the industry statistics chapters.

Because American industry uses an enormous variety of materials, the choice of materials for which "complete coverage" consumption data (90 percent or higher) were obtained had to be strictly limited. The selection of a particular material for such coverage was based on the following criteria:

a. The importance as measured by the total value of U.S. consumption of the material.
b. The percentage of total consumption accounted for by manufacturing establishments.
c. The availability of consumption information from manufacturers' records.
d. Other factors such as the strategic importance of the material or the availability of historical data on the use of the material.

The "limited-coverage" materials were chosen, not only because they constituted important inputs for particular industries, but frequently because they provided information necessary to classify plants by SIC industry. In using the detailed data on materials consumed which appear in table 7 in the industry statistics chapters, of the following limitations should be noted:

a. Materials were reported for the establishment as a whole and no attempt was made to ascertain how much of the material was used in each of various products. Thus, the industry totals appearing in table 7 include consumption in secondary products as well as primary products

of the industry. The extent of secondary production in each industry is measured by its specialization coverage ratio shown in table 5b of the industry chapters.

b. Special attention should be paid to the codes ending in "000" and captioned "materials, parts, containers, and supplies, n.s.k." The amounts appearing on these lines are totals imputed for (1) establishments whose statistics were developed from administrative records, and (2) totals for establishments which returned report forms but failed to report their consumption in specific terms. Thus, for most industries, the data for a specific material are understated. A judgment on the statistical significance of the understatement may be made from the ratio of the value shown for the "n.s.k." (code 000) to the total of materials, components, parts, containers, and supplies for the industry.
c. Establishments consuming less than a specified amount of material were not requested to report consumption of the material separately. For the majority of individual materials, the minimum amount was $10,000. The use of this cutoff is not believed to have had a significant effect on the totals, although in 1972 a lower cutoff of $5,000 was used.
d. A total of "n.e.c." material code 970099 was collected on most forms and is published for each industry. This is the total cost of materials for an industry for which no material items were prelisted on the form. A sample survey, MA-131, 1977 Supplemental Survey of Materials Consumed, was conducted to provide material consumption estimates for the cost of materials reported in material code 970099 for selected industries. Results of this survey are shown in the subject report Selected Materials Consumed.

15. VALUE OF SHIPMENTS

Value of shipments of multiunit companies—Except for a few industries, the respondents were instructed to report net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Multiunit companies were instructed to report for each establishment as if it were a separate economic unit and, in particular, to report interplant transfers at their full economic value. Full economic value is defined as not only the cost of production but also a reasonable proportion of company overhead and profits. Generally, there is no advertising or other selling cost assigned by companies to interplant transfers, so it would be expected that the value per unit of such transfers would be less than that for commercial sales. To assure consistency in the valuation as the interplant transfer moved though the company, the plant receiving the transferred goods was instructed to include them in its cost of materials at the same value as at the shipping point, plus the cost of freight and other handling charges.

If the goods were transferred to sales branches, or sold through separate sales offices, the "f.o.b. plant" instruction implies that the value is somewhat lower than the final invoice value, because the cost of selling (mainly the cost of operating the sales branch or office) is excluded.

However, there is reason to believe that these instructions were not followed uniformly by all companies. In a record-keeping practice study of 54 multiunit companies conducted a few years ago, it was found that about half of them had reported interplant transfers of semifinished products at commercial or market prices, which tend to be somewhat higher than the "cost plus overhead and profit" requested in the census instructions. Where finished products were transferred to separate selling organizations, half of the companies interviewed valued the products leaving the manufacturing plant at their final or invoice price, or somewhat higher than the requested "f.o.b. plant" transfer value. It appears from this study and other observations that the value of shipments of products reported by multiunit companies tends to be overstated. If it was known that a substantial amount of a product tended to be transferred to establishments of the same company, separate quantity and value figures were requested on the amount transferred and the amount sold outside the company. Data on these shipments, the unit value of which tends to be different from the unit value for shipments outside the company, are presented separately in table 6a in the industry statistics chapters.

Individual products—In the 1977 census program, information was collected on the output of approximately 13,000 individual product items.[19] A "product" as used in the census of manufactures is the finest level of detail for which output information was requested. It is not necessarily synonymous with the term "product" as used in the marketing sense. In some cases, it may be much more detailed and, in other cases, it is more aggregative. For example, there is a long list of pharmaceutical preparations but a single item for all canned meats. If detailed production figures were available from other government sources or reliable private surveys, it was not considered necessary to request extensive detail in the census.

Some 6,000 of the product items were listed separately on the 1977 census report forms. Data for the remaining 7,000 products were obtained monthly, quarterly, or annually in commodity surveys of the current industrial reports program of the Bureau of the Census. Totals for the year 1977 for these items compiled in the commodity surveys are shown in table 6a, "products shipped," in the industry statistics chapters. On the 1977 census forms, only an overall control total or "tieline" was obtained. In table 6a, both the tieline total and the total of the detail obtained in the current industrial reports are shown to indicate how closely the two surveys were reconciled.

Typically, both quantity and value of shipments were collected. However, physical quantity measures are not meaningful for some product lines, and for these, only value of shipments was collected. If a product was used to a large degree in the fabrication of other products within the same establishment in which it was produced, total quantities produced and often the quantities consumed were collected. Information on production, as well as shipments, was also collected for products for which there are significant differences between the two

[19] See 1977 Census of Manufactures MC77-R-1, Numerical List of Manufactured Products.

because of wide fluctuations in finished goods inventories. Alternate measures of output of products, such as value of work done for products with long production cycles, were used as appropriate and feasible.

Classes of products—The individual products were aggregated into classes of products which were, in turn, grouped into the primary products of each industry. In the code structure, a 7-digit number is assigned to the individual product, a 5-digit code to the class of product, and a 4-digit code to the total primary products in an industry. (See section 4 for application of coding structure to the assignment of SIC codes for establishments).

The 13,000 product items in the 1977 census (including products from the current industrial reports program) were grouped into approximately 1,500 separate product classes. General similarity was the basis for the product class combinations within each 4-digit industry, i.e., kind or use of products, the manufacturing processes, type of markets, or materials used. The economic significance of the class was also taken into account; residual products of an industry were grouped when the dollar value of the products did not warrant separate classes.

Since preserving confidentiality of the data of respondent companies is a determinant of the amount of detail that can be published, the larger number of respondents included in the product-class shipments totals permit many more cross tabulations than do the 7-digit products. In the industry statistics chapters, product classes by State appear in table 6b and by industry of the establishment producing them in table 5c. The latter table clearly shows the primary and secondary product mix of an industry, as well as the interrelationship between the 4-digit industry value of shipments and the 4-digit product group value of shipments.

It is possible to classify individual establishments not only by 4-digit industry, but also by the largest class of products they produce within that industry. Table 5a provides finer industry-type general statistics for establishments classified according to the degree to which they specialize in producing a specific class of products.

The class-of-product concept was incorporated by the Bureau of the Census into the 1947 Census of Manufactures after it developed the technique in the compilation of World War II production statistics. Product classes were used to collect product information in the first ASM conducted in 1949. The product classes tend to be redefined more frequently than the SIC on which they are based in order to keep abreast of the growth and decline of products.

Effect of use of administrative records on product data—As noted elsewhere in this Introduction, 140,000 small manufacturers were not mailed report forms and most of their detail was imputed based on limited information in IRS and SSA administrative records. All of the value of products of these small establishments were coded only to the 4-digit products of the industry in which they were classified. These product shipment are uniquely identified in table 6a. Also uniquely identified are product shipments of reporting companies which were described too generally to code below the 4-digit level. Frequently, these were residuals in the company's records which the company felt it could not further break down. Table I, summarized by 2-digit group, reflects the importance of these "n.s.k." product shipments. Except in a few industries, they tend to be moderate in size—except in lumber, furniture, and printing (SIC 24, 25, and 27). The "n.s.k." of the respondents tends to be larger than that of the administrative records.

One factor tends to reduce the value of products, n.s.k., attributed to administrative record companies that affects table I, particularly. In some 4-digit industries, there is only one product category (an example is Industry 3273, Ready-Mixed Concrete). Administrative-record estimates for these products were treated as specific information and not tabulated as "n.s.k." headings.

In using the data for the specific 7-digit products shown in table 6a, the importance of the "n.s.k." has to be considered. The shipments of individual products tend to be understated somewhat in proportion to the size of the "n.s.k." Census-to-census comparison of 7-digit products should be made with caution if there has been a significant increase or decrease in the importance of the n.s.k.

16. DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

The aggregates of the cost of materials and value of shipments figures for industry groups, and for all manufacturing industries, include large amounts of duplication since the products of some industries are used as materials by others. With some important exceptions, such as SIC 3312, Blast Furnaces and Steel Mills, this duplication is not significant within individual 4-digit industries. However, it is significant at the 2- and 3-digit industry levels because these group totals often include industries which are successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the total value of shipments of SIC major group 20 and the addition of pulpmills to papermills in group 26. Economists have estimated that the value of manufactured products exclusive of such duplication—the value of finished manufactures—tends to approximate two-thirds of the total value of shipments reported in the census of manufactures.

Because the amount of duplication of the cost of materials in the value of products figures cannot be measured with any degree of precision, caution is urged with the use of the value of shipments totals at the 2- and 3-digit industry group levels.

Even where there is no significant amount of duplication within an industry group, value of shipments figures are not the best measures of the relative economic importance of individual manufacturing industries or geographic areas. There are wide variations in the ratio of materials, labor, and other processing costs to value of shipments; both among industries and within the same industry. The manufacturing process contributes only a small amount to the sales value of some products; but a large amount to the final value of others. Value added by manufacture is a better measure of the net contribution of an industry to the Nation's overall output.

Table I. **Value of Products, Not Specified by Kind: 1977 and 1972**

Product group code	Total value of product shipments (mil. dol.)		Products not specified by kind											
			Total (mil. dol.)		Large companies (mil. dol.)		Small companies (mil. dol.)		Percent attributed to--					
									Total		Large companies		Small companies	
	1977	1972	1977	1972	1977	1972	1977	1972	1977	1972	1977	1972	1977	1972
Total	1,287,117.8	739,426.8	65,064.9	35,968.3	43,057.2	25,132.6	22,007.7	10,835.7	5.1	4.9	3.3	3.4	1.7	1.5
20	177,357.2	106,779.6	10,836.6	5,700.5	7,446.0	4,302.6	3,390.6	1,397.9	6.1	5.3	4.2	4.0	1.9	1.3
21	8,524.9	5,540.2	54.3	40.8	38.2	32.3	16.1	8.5	.6	.7	.4	.6	.2	.1
22	39,439.5	30,884.3	1,243.0	833.3	871.9	672.3	371.1	161.0	3.1	2.7	2.2	2.2	.9	.5
23	38,876.5	29,247.5	4,207.2	2,435.6	3,213.0	1,728.9	994.2	706.7	10.8	8.3	8.3	5.9	2.5	2.4
24	38,110.0	22,919.6	5,312.9	2,999.3	3,470.8	1,405.0	1,842.1	1,594.3	13.9	13.1	9.1	6.1	4.8	7.0
25	16,162.9	10,843.2	1,763.4	1,155.5	1,195.3	848.5	568.1	307.0	10.9	10.6	7.4	7.8	3.5	2.8
26	50,350.3	27,227.4	1,883.4	791.2	1,341.3	677.6	542.1	113.6	3.7	2.9	2.7	2.5	1.1	.4
27	46,692.4	29,347.5	6,091.9	3,433.1	4,167.9	1,891.6	1,924.0	1,541.5	13.0	11.7	8.9	6.4	4.1	5.3
28	109,724.4	53,038.9	3,453.6	1,567.3	2,122.4	1,140.7	1,331.2	426.6	3.1	3.0	1.9	2.2	1.2	.8
29	93,945.7	27,349.6	776.6	330.0	674.8	255.6	101.8	74.4	.8	1.2	.7	.9	.1	.3
30	38,237.2	19,963.5	3,297.5	1,360.3	2,508.3	1,048.3	789.2	312.0	8.6	6.8	6.5	5.2	2.1	1.6
31	7,122.3	5,472.0	594.7	335.0	488.2	242.4	106.5	92.6	8.3	6.1	6.8	4.4	1.5	1.7
32	33,780.9	21,139.7	1,756.8	1,042.1	1,164.2	678.7	592.6	363.4	5.2	4.9	3.4	3.2	1.7	1.7
33	99,044.8	71,058.4	1,469.7	1,225.0	822.7	1,069.8	647.0	155.2	1.5	1.7	.8	1.5	.7	.2
34	85,593.8	51,167.1	6,059.9	3,677.9	3,976.7	2,847.1	2,083.2	830.8	7.1	7.2	4.6	5.6	2.4	1.6
35	115,329.9	60,212.7	7,624.6	4,085.9	4,557.9	2,699.2	3,066.7	1,386.7	6.6	6.8	4.0	4.5	2.7	2.3
36	83,014.3	49,958.8	2,988.2	1,464.2	1,650.0	1,148.2	1,338.2	316.0	3.6	2.9	2.0	2.3	1.6	.6
37	161,607.6	91,522.0	1,999.9	1,413.5	1,084.9	1,126.8	915.0	286.7	1.2	1.5	.7	1.2	.6	.3
38	26,949.1	14,484.8	1,277.4	556.1	662.6	413.8	614.8	142.3	4.7	3.9	2.5	2.9	2.3	1.0
39	17,254.1	11,270.0	2,373.3	1,521.7	1,600.1	903.2	773.2	618.5	13.8	13.5	9.3	8.0	4.5	5.5

Note: These values are product shipments, irrespective of the industry in which the products were made and exclusive of miscellaneous receipts, and, therefore, differ from the industry group totals shown in the general summary tables. However, products primary to more than one product group are classified based on the industry in which they were made. Data for some product groups may differ slightly from the data collected in order to avoid disclosing operations of individual companies which have previously been withheld from the tables 6a of the 1977 and 1972 Censuses of Manufactures Industry Series.

17. VALUE ADDED BY MANUFACTURE

General—The first step in the calculation of value added is the conversion of the value of shipments (including resales and miscellaneous receipts) to value of production by adding the ending inventory of finished foods and work in process inventories and subtracting the beginning inventory. The cost of materials (including materials, supplies, fuel, electric energy, cost of resales, and cost of contract work) is then subtracted from this value of production to obtain value added.[20]

Value added avoids the duplication in the value of shipments figure which results from the inclusion of the shipments of establishments producing materials and components, along with the shipments of establishments producing finished products. It does not exclude the cost of services purchased from other business firms, as does the concept of value added, used in the national income accounts.[21] Nevertheless, it is considered to be the best value measure available in census data for comparing the relative economic importance of manufacturing among industries and geographic areas.

Gross national product, national income, and value added—The national income accounts provide two measures of national output or value added originating in manufacturing: (1) gross national product (GNP), or, more precisely, gross domestic product (GDP),[22] and (2) national income without capital consumption adjustment. These two measures are statistically different and neither is completely comparable to census value added.

GDP originating in manufacturing is the net value of the output of goods and services produced in the U.S. at market prices before deductions for depreciation charges and capital consumption allowances. It differs, in part, from the census value added since it includes indirect business taxes (e.g., sales, excise, and property). Excise and sales taxes are excluded from the f.o.b. census value of shipments and, thus, from census value added. Property taxes are part of the cost of doing business included in census value added, since only the cost of materials is deducted from f.o.b. shipments. A greater difference between GDP and census value added rests in the exclusion of purchased business services from GDP, but not from census value added. Both GDP and census value added include the basic factor costs of production—labor costs, property costs including depreciation, and profits. Depreciation in the two series is calculated differently, however. The census collects depreciation as carried on the books of the establishment. Thus, it tends to be the depreciation

[20] For a few industries (for example, ship building) where value of work done is substituted for value of shipments, no adjustment is made for change in inventories. In a few other industries where value of production is collected, the inventory adjustment is made only on the basis of change in work-in-process inventories.

[21] Collection of data on the cost of purchased business services at the plant level presents many problems. Advertising by multiunit companies, for example, is frequently charged at the company level and the cost either not allocated to plants or, if allocated, are only included as part of a broader company overhead category. National income data, on the other hand, are compiled, in part, from company rather than plant data, such as the IRS Statistics of Income in which advertising is presented as a separate cost item based on company reports.

[22] Gross national product is the market value of goods and services producted by labor and property supplied by *Residents* of the United States. Gross domestic product is the goods and services attributable to labor and property *located within* the United States.

charged against the original purchase price of the plant or equipment on a tax return basis. In calculating GDP, these tax return allowances are adjusted to account for the economic service lives, straight-line depreciation, and replacement cost.

In compiling the national accounts, it is necessary to rely on two different sources of data: (1) establishment-based data similar to the census for labor income, and (2) company-based data for profit and other company level income and cost charges. In estimating the GDP for manufacturing, the property-type incomes, interest, depreciation, and profit have been reestimated to an establishment basis by the Bureau of Economic Analysis (BEA). Thus, conceptually, both the GDP and value added tend to be on a comparable establishment-industry basis.

In the national accounts, 2-digit detailed statistics within manufacturing are compiled only on a national income basis, without the capital consumption adjustment. National income differs from GDP by the exclusion of indirect business taxes and capital consumption allowances, but before the capital consumption adjustment. Unlike GDP, it remains a mixture of establishment-based data and company-based data for profits and company-type costs. This results in the inclusion in national income of the net value added created by nonmanufacturing establishments of companies primarily engaged in manufacturing, but the exclusion of value added created by manufacturing plants of primarily nonmanufacturing companies. It is thought that this tends to raise the national income attributed to manufacturing. This effect can be seen in the petroleum and coal products industry group where nonmanufacturing activities are so significant that national income exceeds value added (see tables J and K).

Table K provides a year by year comparison of GDP and national income to value added. GDP tends to be 10 to 20 percent lower. In recent years, there are some erratic variations in these relationships. In part, this is thought to be the result of the different treatment of the change in inventory that is used in the two series. The census inventory figures are book value inventories and, thus, a mixture of last-in-first-out (LIFO) and first-in-first-out (FIFO) and other historic accounting methods. In the national income accounts, these inventories are converted to current prices comparable to the prices used to value the GDP, and, thus, the change in inventories is on a current-priced value consistent with sales. Significant differences occur in the change in book value and currently-priced inventories in years of rapidly changing prices. The magnitude of these differences can be partially judged by the size of the inventory valuation adjustment used by BEA (see table L).

Reconciliation of GDP and value added—In recent years, the census and the annual survey of manufactures have been obtaining data on some of the residual costs included in census value added. As a result, it is possible to reconcile in more detail the differences between GDP and value added in manufacturing. In table M, the census value added, at $585.2 billion, exceeded GDP at $462.4 billion. When indirect business taxes (other than property taxes) are deducted from GDP, it drops to $444.0 billion, or $141.2 billion less than census value added. The labor components of the two series are reasonably close, although not identical. Census depreciation, on a book value basis, however,

Table J. **Comparison of National Income Originating and Value Added by Major Industry Group: 1977 and 1972**

(Billion dollars)

SIC code	Industry group description	National income originating[1]		Value added by manufacturing		Column A divided by column C	Column B divided by column D
		1977	1972	1977	1972		
		(A)	(B)	(C)	(D)	(E)	(F)
	Manufacturing	411.5	252.3	585.2	354.0	.70	.71
	Nondurable goods	162.9	98.3	246.9	149.5	.66	.66
20	Food and kindred products	33.1	20.5	56.1	35.6	.59	.58
21	Tobacco manufactures	2.8	1.7	4.3	2.6	.65	.65
22	Textile mill products	12.3	8.4	16.1	11.7	.76	.72
23	Apparel and other fabricated textile products	13.7	9.8	19.7	13.5	.70	.73
26	Paper and allied products	15.5	9.5	22.2	13.1	.70	.73
27	Printing, publishing, and allied industries	21.0	13.5	32.0	20.2	.66	.67
28	Chemicals and allied products	30.8	18.2	56.7	32.4	.54	.56
29	Petroleum refining and related industries	18.7	6.7	16.4	5.8	1.14	1.16
30	Rubber and miscellaneous plastics products	12.2	7.7	19.7	11.7	.62	.66
31	Leather and leather products	2.8	2.2	3.7	2.9	.76	.76
	Durable goods	248.6	154.0	338.3	204.6	.73	.75
24	Lumber and wood products, except furniture	13.2	8.3	16.2	10.3	.81	.81
25	Furniture and fixtures	6.1	4.4	8.9	6.1	.69	.72
32	Stone, clay, and glass products	13.0	8.7	19.1	12.6	.68	.69
33	Primary metal industries	28.6	17.9	37.6	23.3	.76	.77
34	Fabricated metal products	31.7	19.4	45.5	26.9	.70	.72
35	Machinery, except electrical	47.9	27.7	67.2	37.6	.71	.74
36	Electrical machinery	36.4	22.6	50.4	30.6	.72	.74
19[2]	Motor vehicles and equipment	33.7	20.1	64.3	39.8	.82	.83
37	Other transportation equipment	18.9	13.1				
38	Instruments	11.9	7.2	18.7	10.6	.63	.68
39	Miscellaneous manufacturing industries	7.1	4.6	10.3	6.8	.69	.68

[1]Source: Survey of Current Business, July 1970; July 1979.
[2]This major group was recoded to major groups 34, 36, 37, and 38 in the 1972 SIC revision.

Table K. **Comparison of Gross Domestic Product, National Income Originating in Manufacturing, and Value Added by Manufacture 1977 and Earlier Years**

(Billion dollars)

Gross domestic product	Gross domestic product originating in manufacturing[1] [2]	National income originating in manufacturing[1] [2]	Value added by manufacture	Column A divided by column C	Column B divided by column C
	(A)	(B)	(C)	(D)	(E)
1977	462.4	411.5	585.2	.79	.70
1976	410.4	366.6	511.5	.80	.72
1975	358.2	317.7	442.5	.81	.72
1974	340.7	301.4	452.5	.75	.67
1973	326.1	285.3	405.6	.80	.70
1972	292.5	252.3	354.0	.83	.71
1971	265.6	226.5	314.1	.85	.72
1970	252.2	215.1	300.2	.84	.72
1969	256.7	221.9	304.4	.84	.73
1968	242.8	211.0	285.1	.85	.74
1967	222.3	193.7	262.0	.85	.74
1966	216.6	189.7	250.9	.86	.76
1965	197.7	171.3	226.9	.87	.76
1964	179.4	154.5	206.2	.87	.75
1963	167.4	143.8	192.1	.87	.75
1962	157.9	136.0	179.1	.88	.76
1961	144.4	125.0	164.3	.88	.76
1960	143.8	125.1	164.0	.88	.76
1959	141.3	124.3	161.5	.87	.77
1958	123.8	107.9	141.5	.87	.76
1957	131.4	116.3	147.8	.89	.79
1956	126.8	113.2	144.9	.88	.78
1954	106.4	94.7	117.0	.91	.81
1947	66.2	59.6	[3]74.3	.89	.80
1939	(NA)	18.1	[3]24.5	(X)	.74
1929	(NA)	21.9	[3]30.6	(X)	.72

(NA) Not available. (X) Not applicable.

[1]Source: Revised estimates of gross domestic product by major industries, Survey of Current Business, July 1978, p. 28; National Income and Product Accounts.

[2]In comparing gross domestic product and national income originating in manufacturing with value added, the role of change in inventories must be recognized. Census value added is value of shipments less the cost of materials adjusted for the change in book value inventories (finished goods and work in process in most industries.) Gross domestic product and national income originating in manufacture include the change in business inventories as part of gross private domestic investment. In the National Income Accounts, the book value change in inventories is adjusted for change in prices to convert it to prices similar to those used to measure the value of output. This adjustment is referred to as the inventory valuation adjustment. In periods of significant inflation, such as 1974, this adjustment can be substantial and create a slower year-to-year growth in gross domestic product originating than in value added in manufacturing, so there is a drop in gross domestic product and national income originating as a percent of value added in manufacturing. In periods of stable prices, the movements of the two inventory series usually are similar.

[3]Value added for 1947 and earlier years is unadjusted.

Table L. **Change in Manufacturing Inventories: 1977**

(Billion dollars)

Item	Value
Change in book value inventories (census)	$13.4
Inventory valuation adjustment	-8.4
Change in inventories (gross national product)	5.0

Note: In calculating gross national product, the Bureau of Economic Analysis uses the change in total inventories. In compiling value added, the Bureau of the Census typically uses finished goods and work in process inventories only. In 1977, these inventories were $9.3 billion compared with total inventories of $13.4 billion.

Source: U.S. Department of Commerce, Bureau of Economic Analysis.

is less than the GDP capital consumption allowance, adjusted for economic service lives, straight-line depreciation, and replacement cost. Census book-value depreciation was $26.7 billion, the adjusted GNP capital consumption allowance, $40.0 billion. After measurable labor costs and depreciation were deducted, unexplained census value was $231.4 billion compared with an explained GNP of $81.4 billion. Census has not been able to measure all the remaining components of value added, especially those parts which are company-type charges and profits. In 1977, information was collected on rentals and cost of communication services, and maintenance and repair purchased from other companies, a total of $22.4 billion, leaving the unexplained portion of value added at $209.0 billion. If the GDP estimates of $9.9 billion for property taxes and $71.4 billion for profits and interest payments are applied to this, there is a final unexplained portion of value added amounting to $127.7 billion.

This residual is attributable to company overhead other than central office payroll, e.g., company-level depreciation, business taxes, and purchased services (advertising, legal, accounting, and other professional services, patents, royalties, etc., not readily measurable separately at the plants).

18. CAPITAL EXPENDITURES AND GROSS ASSETS

Capital expenditures—The manufacturers were instructed to report expenditures of the type chargeable to fixed assets

Table M. COMPARATIVE STATISTICS ON CENSUS VALUE ADDED AND GROSS DOMESTIC PRODUCT: 1977

(Billion dollars)

Item	Census value added	GDP
Total	—	462.4
Less: Indirect tax (except property) business and not subsidies[1]	—	18.4
Equals	[1]585.2	444.0
Less: Compensation of employees total	327.1	322.6
Census payrolls of operating plants	242.0	—
Census payroll supplements of operating plants	49.9	—
Census payrolls of central offices and auxiliaries	[2]22.0	—
Census payrolls of sales branches offices	[2]13.2	—
Equals	258.1	121.4
Less. Additional cost measured by census of manufactures	49.1	40.0
a. Included in GDP: Capital consump. allowance[3]	26.7	40.0
b. Excluded from GDP	22.4	—
Purchased communication service	3.6	—
Purchased maintenance and repairs	11.9	—
Rental payments, building and equipment	6.9	—
Equals: Residual costs included in census value added	209.0	81.4
Less: Costs or incomes assumed to be equal to those measured in GDP	93.6	81.3
Property tax	9.9	9.9
Interest and profit type income	71.4	71.4
Difference between census book value depreciation and GDP depreciation[3]	12.3	—
Equals: Remaining costs in value added (company overhead, other than payrolls included above: e.g., company-level depreciations, business taxes, and services purchased by company or directly by plants (advertising, legal, accounting, and other professional services; communications, patent fees, royalties, travel costs, etc.)	115.4	(.1)

[1] Census measures value of shipments exclusive of sales and excise taxes. Property taxes are a cost included in value added.

[2] There is strong evidence that most companies include the payroll of administrative offices and auxiliaries and all sales offices in setting the f.o.b. value of shipments from their manufacturing plants. Those costs are, thus, included in value added. Many companies also indicate that they include the cost of sales branches, although this may not be universally true (see "value of shipments" in text).

accounts, for which depreciation reserves are normally maintained. Actual capital outlays during the year were requested, not the final value of equipment put in place or structures completed during the year.

The Bureau of the Census estimates of capital expenditures tend to be lower than those published by BEA in its quarterly survey of expenditures for plant and equipment. In addition to normal sampling variation, a major source of difference rests in the scope of the two series. Census data relate only to manufacturing establishments.

The BEA series relating to manufacturing includes all establishments of manufacturing companies, nonmanufacturing as well as manufacturing, but excludes manufacturing establishments of companies that they have classified as chiefly nonmanufacturing. This difference in the two series is particularly important in the petroleum industry where company expenditures for developing new wells and new distribution facilities are ordinarily much larger than their capital expenditures at refineries. The BEA and Census data for recent years are shown in tables N and O.

Table N. Expenditures for New Plant and Equipment—BEA Series and Census: 1977 and Earlier Years

(Billion dollars)

Year	BEA-series[1]	Census (census of manufactures and ASM)[2]	Column B divided by column A
	(A)	(B)	(C)
1977	69.2	47.5	.69
1976	59.9	40.5	.68
1975	54.9	37.3	.68
1974	53.2	35.7	.67
1973	42.4	27.0	.64
1972	35.4	24.1	.69
1971	33.6	20.9	.62
1970	37.0	22.2	.60
1969	36.3	22.3	.61
1968	32.3	20.6	.64
1967	32.3	21.5	.67
1966	31.4	20.2	.64
1965	25.4	16.6	.65
1964	21.2	13.3	.63
1963	17.3	11.4	.66
1962	16.0	10.0	.63
1961	15.5	9.8	.63
1960	16.4	10.0	.61
1959	13.8	9.3	.67
1958	13.0	9.6	.74
1954	12.0	8.2	.68
1947	8.7	[2]6.0	.69

[1] Source, U.S. Department of Commerce, Survey of Current Business, October 1980.

[2] Excludes data for establishments under construction but not yet in operation.

[3] Capital consumption allowances in GDP and depreciation as collected in the census are not completely comparable. Depreciation reported in the census is that carried on the books of the establishment and is charged against the original purchase cost of the assets. In the GNP accounts, a "capital consumption adjustment" is made to place the depreciation more on a replacement cost basis. Specifically, it is "the tax-return-based capital consumption allowances, less capital consumption allowances, that are based on estimates of economic service lives, straight-line depreciation, and replacement cost."

Source: Department of Commerce, Bureau of Economic Analysis, and Bureau of the Census.

Table 0. **Expenditures for New Plant and Equipment—BEA Series and Census of Manufactures, by Industry Group: 1977**

(Billion dollars)

Industry groups	BEA series[1]		Census of manufactures		Census as percent of BEA	
	1977	1972	1977	1972	1977	1972
All manufacturing.....	69.2	35.4	47.5	24.1	.69	.68
Durable goods.....	34.0	18.1	24.4	12.7	.72	.70
Primary metals.....	5.4	2.4	4.5	2.1	.83	.88
Fabricated metal.....	2.5	1.4	2.6	1.3	1.04	.93
Electric machinery.....	4.7	2.8	2.9	1.4	.62	.50
Machinery, except electric..	6.6	3.2	4.4	1.9	.67	.59
Transportation equipment....	9.1	4.4	4.7	2.7	.52	.61
Stone, clay, and glass.....	2.2	1.3	1.9	1.2	.86	.92
Other durables.....	3.5	2.6	3.4	2.1	.97	.81
Nondurable goods.....	35.2	17.3	23.2	11.4	.66	.66
Food and beverages.....	5.1	3.3	4.2	2.4	.82	.73
Textiles.....	1.3	1.1	1.2	1.1	.92	1.00
Paper.....	3.6	1.5	3.3	1.3	.92	.87
Chemicals.....	8.1	3.4	8.2	2.7	1.01	.79
Petroleum.....	12.7	4.8	2.3	1.2	.18	.25
Rubber.....	1.7	1.0	1.6	1.1	.94	1.10
Other nondurables.....	2.7	2.2	2.4	1.6	.89	.73

[1]Source: U.S. Department of Commerce, Survey of Current Business, October 1980.

Gross value of fixed assets—In addition to reporting capital expenditures during the year, the manufacturers were requested to report the original cost value of fixed assets (structures and machinery and equipment) in place at the end of the year, along with depreciation and retirements during the year. This series, however, is based on reports filed in the ASM sample. It is conceptually comparable with the capital expenditures data. As the census capital expenditures series differs from the BEA series, so the census gross assets series will differ from similar series based on company level reports, i.e., those appearing in the IRS Statistics of Income and the FTC Quarterly Financial Report of Corporations. Since the census assets series is also based on sample estimates from the ASM, it is subject to a sampling error. (See appendix A for more complete definitions of terms.)

19. INVENTORIES

The value of end-of-year inventories held by each manufacturing establishment was obtained for each year. Separate information was requested for—

a. Finished goods,
b. Work-in-process, and
c. Materials, supplies, fuel, and other inventories.

A measure of the changes in inventories from the beginning to the end of each year is essential to the conversion of value of shipments during the year to value of production, and, therefore, to the calculation of value added. The ratios of inventories to shipments at different times are also used in analysis of trends and business-cycle movements. For the best use of all of these measures, the inventories should be valued in the same prices as the shipments. Census inventory statistics have some limitations in these uses.

The inventories, as collected currently and in the past, have been the inventories as carried in the books of each respondent. In aggregating those inventories and calculating inventory changes, census procedures make no adjustments for the different methods of inventory valuation used by the respondents. Change in inventories and the relationship of inventories to shipments can vary significantly depending on whether last-in first-out (LIFO) or some historical method such as first-in first-out (FIFO) is used. These differences can become very significant in periods of rapid- and large-price changes. In recent years, the Bureau of the Census has been obtaining information on the preparation of inventories valued by the different accounting methods, both in its monthly surveys and the annual survey of manufactures. Some results have been published in the monthly Manufacturers' Shipments, Inventories, and Orders survey but none for the ASM. Considerable difficulty has been encountered in obtaining results of publication quality because of the complexity of the accounting at the establishment level and corporate level in large companies. Unofficial results have been made available to BEA to assist them in their adjustment of book value inventories to current and constant prices for use in the national income accounts. Some of the anomalies in the census value added and the national income originating in manufactures are due to the different treatment of inventory change in the two series.

In using inventory data by stage of fabrication for all industries at the industry level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and all manufacturing which are merely aggregates of figures reported by establishments in specified industries.

For a few industries in the food group, there are special problems in the handling of inventories by stage of fabrication. These are industries in which the products are aged. Included among such types of products are stemmed and dried tobacco, cheese, and whiskey. It is not clear whether such products should be treated as finished-goods inventories or as work in process while in storage. In all these industries, substantial finished goods inventroies have been reported. These data have been summarized in the inventory tables in a consistent manner for all of the years included in this report.

20. PLANT SPECIALIZATION

As discussed in item 4 above, the primary products of a plant are those which determine its industry classification; all other products are referred to as secondary products. The value of a plant's primary products in comparison to its total production is referred to as its degree of specialization. For each plant, two measures of specialization were computed:

a. A 4-digit primary product-specialization ratio, which is the sum of the values of all the plant's primary products divided by the sum of all its primary and secondary products.

b. A 5-digit primary product-class specialization ratio, which is the sum of the largest 5-digit product-class value divided by the sum of its primary and secondary products (the miscellaneous receipts of the establishment were not included in these calculations). For example, assume that an establishment reported the following:

Total value of shipments and other receipts	$1,000
Miscellaneous receipts (resales, etc.)	15
Total value of products shipped	985
32731, Concrete pipe products	100
32722, Precast concrete products	785
32730, Ready-mixed concrete	100

This plant would be coded into Industry 3272, Concrete Products, with a primary product specialization ratio of 90 percent ($885 ÷ 985); it would be subclassified into the 5-digit Class 32722, Precast Concrete, with a primary product class specialization ratio of 80 percent ($785 ÷ 985).

21. CONFIDENTIALITY

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. In suppressing figures to avoid disclosing information of individual companies, individual States are given precedence over geographic regions and divisions. This is an innovation for 1977, since in prior censuses the larger geographic areas were given precedence. As a result of this change in philosophy, it has become more difficult to produce industry detail for the larger geographic areas and data for the these areas are no longer published. States are given precedence over standard metropolitan statistical areas; standard metropolitan statistical areas over counties; and counties over cities.

In tables showing industry detail, major industry group (2-digit) totals take precedence over industry group (3-digit) totals which, in turn, take precedence over individual (4-digit) industries. Similarly, in product tables, 4-digit product groupings take precedence over 5-digit product classes and the latter over individual 7-digit products.

Such order of precedence was used because:

a. It was considered preferable to show State data for an industry, even at the cost of withholding data for a region. In recent years, there seemed to be more need for and use of data for individual States than for the larger regions—especially since many regional development programs encompassed clusters of States different from the standard regions and divisions.
b. By giving preference to industry-group statistics over individual industries within each State, the extent to which individual States can be compared within the SIC industry classification framework is greatly increased.

22. MICROFICHE AND COMPUTER TAPES

Data in many tables in the census volumes are available on microfiche and on computer tape.

One major data series, the Location of Manufacturing Plants, will be available only on computer tape. This series presents the number of establishments by employment size class by 4-digit SIC industry codes for States, counties, and places of 2,500 inhabitants or more. These data are available for both State and county by industry and State and place by industry.

Microfiche reports and computer tapes are sold by Customer Services (Microfiche/Tapes), Data User Services Division, Bureau of the Census, Washington, D.C. 20233.

23. SPECIAL TABULATIONS

Special tabulations of data collected in the 1977 Census of Manufactures may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, D.C. 20233.

24. ABBREVIATIONS

The following abbreviations and symbols occur frequently in text, tables, and footnotes:

—	Zero
(X)	Not applicable
(NA)	Not available
(D)	Withheld to avoid disclosing operations of individual companies
n.e.c	Not elsewhere classified
n.s.k.	Not specified by kind
(S)	Suppressed
(Z)	Less than one half of unit of measure shown
lin.	Linear
equiv.	Equivalent
hp	Horsepower
kWh	Kilowatt-hours
SIC	Standard Industrial Classification
IRS	Internal Revenue Service
SSA	Social Security Administration
ASM	Annual Survey of Manufactures
CIR	Current Industrial Reports
BEA	Bureau of Economic Analysis
SEC	Securities and Exchange Commission
GNP	Gross National Product

Other abbreviations, such as lb, gal, yd, doz, and bbl, are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "gross tons."

Data in this publication may differ slightly from the industry and area reports previously published. These differences are due to corrections which were made for minor errors identified after the industry and area reports were issued. This report reflects these corrections.

USERS' GUIDE IN LOCATING STATISTICS BY TABLE NUMBER IN THE INDUSTRY CHAPTERS

(For explanation of terms, see appendix A)

	Item	4-digit industry statistics		
		Historical	Operating ratios	By geographic area
1	Number of manufacturing establishments	1a		2
	Employment and payroll:			
2	Number of employees	1a	1b	2
3	Payroll	1a	1b	2
4	Supplemental labor costs			
5	Production workers	1a	1b	2
6	Production worker hours	1a	1b	2
7	Production worker wages	1a	1b	2
	Shipments, cost of materials, and value added:			
8	Value of shipments (4-digit)	1a	1b	2
9	Product class shipments (5-digit)			
10	Product shipments (7-digit)			
11	Value added by manufacture	1a	1b	2
12	Cost of materials	1a	1b	2
13	Cost of fuels and electric energy			
14	Materials consumed by kind			
	Inventories:			
15	End of year	1a		
16	Stage of fabrication			
	Capital expenditures, assets, rental payments, and purchased services:			
17	New capital expenditures	1a		2
18	Used plant and equipment expenditures			
19	Gross assets	1a	1b	
20	Depreciation			
21	Retirements of buildings and machinery			
22	Rental payments			
23	Purchased services			
	Ratios:			
24	Specialization	1a		
25	Coverage	1a		

[1] Detailed information shown.

4-digit industry statistics—Con.				5-digit product class and 7-digit product statistics				
Summary and supplemental	By employment size	By industry and product class specialization	Materials consumed by kind	Industry-product analysis	Product shipments	Product class by geographic area	Historical product class	
[1] 3a	4	5a						1
3a	4	5a						2
3a	4	5a						3
[1] 3b								4
[1] 3a	4	5a						5
[1] 3a	4	5a						6
3a	4	5a						7
3a	4	5a		5b, 5c				8
				5b, 5c	6a	6b	6c	9
					6a			10
3a	4	5a						11
[1] 3a	4	5a						12
3a								13
			7a					14
3a	4							15
3a								16
[1] 3a, [1] 3b	4	5a						17
[1] 3a, [1] 3b								18
[1] 3b								19
[1] 3b								20
[1] 3b								21
[1] 3b								22
[1] 3b								23
3a				5b				24
3a				5b				25

General Summary

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Table 1. **Statistics for All Manufacturing Establishments Including Administrative Offices and Auxiliaries: 1977 and Earlier Years**

Year	All establishments		All employees[1]		Production workers			Value added by manufacture[3] (million dollars)	Value of industry shipments (million dollars)	New capital expenditures[4] (million dollars)	Index of industrial[5] production (1977=100)
	Total (number)	With 20 employees or more (number)	Number[2] (1,000)	Payroll (million dollars)	Number[2] (1,000)	Hours (million)	Wages (million dollars)				
1977	359,928	118,699	19,590.1	264,013.1	13,691.0	26,686.7	157,163.7	585,165.6	1,358,526.4	47,459.0	100.0
1976[6]	(NA)	(NA)	18,752.0	233,388.7	13,052.0	25,354.2	137,565.4	511,471.1	1,185,695.3	40,669.9	94.5
1975[6]	(NA)	(NA)	18,302.2	209,519.0	12,568.9	24,069.6	121,429.0	442,485.2	1,039,377.4	37,262.1	84.8
1974[6]	(NA)	(NA)	19,844.4	208,312.0	13,927.1	27,251.0	124,977.1	452,497.0	1,017,873.4	35,546.1	94.4
1973[6]	(NA)	(NA)	19,844.8	193,324.5	14,232.8	28,096.9	118,332.6	405,583.6	875,443.2	26,972.9	94.7
1972	320,710	114,195	19,028.7	174,205.5	13,527.9	26,699.2	105,501.8	353,994.0	756,534.3	24,077.7	86.7
1971[6]	(NA)	(NA)	18,363.1	156,202.8	12,874.9	25,265.9	93,231.7	314,138.4	670,970.5	20,940.7	78.9
1970[6]	(NA)	(NA)	19,217.2	153,078.5	13,528.0	26,669.3	91,609.0	300,227.6	634,322.1	22,164.2	77.6
1969[6]	(NA)	(NA)	20,035.5	152,765.6	14,357.8	28,599.8	93,459.6	304,440.7	642,635.8	22,291.2	81.0
1968[6]	(NA)	(NA)	19,527.6	141,822.7	14,041.2	28,156.8	87,480.4	285,058.9	603,220.1	20,613.1	77.6
1967	311,140	110,256	19,323.2	132,208.4	13,955.3	27,837.6	81,393.6	261,983.8	557,397.8	21,503.0	72.9
1966[6]	(NA)	(NA)	19,024.5	125,350.0	13,826.5	28,102.5	78,256.4	250,880.1	538,736.9	20,235.8	72.1
1965[6]	(NA)	(NA)	18,010.2	113,972.2	13,076.0	26,567.8	71,361.5	226,939.9	492,005.7	16,615.0	64.9
1964[6]	(NA)	(NA)	17,268.5	106,403.3	12,403.3	25,245.5	65,838.9	206,193.6	447,985.1	13,294.3	59.1
1963	311,931	102,296	16,958.4	99,898.8	12,232.0	24,509.4	62,093.6	192,082.9	420,528.1	11,370.0	55.3
1962[6]	(NA)	(NA)	16,765.6	94,291.2	12,126.5	24,269.5	59,134.1	179,071.1	399,308.9	10,436.2	52.2
1961[6]	(NA)	(NA)	16,331.2	88,127.8	11,778.5	23,289.4	54,764.6	164,281.1	369,994.3	9,779.8	47.8
1960[6]	(NA)	(NA)	16,762.7	88,087.1	12,209.5	24,174.4	55,555.5	163,998.5	(NA)	10,097.8	47.7
1959[6]	(NA)	(NA)	16,662.2	85,642.0	12,272.6	24,443.6	54,714.1	161,535.8	(NA)	9,140.0	46.8
1958[7]	303,303	95,310	16,025.2	78,348.9	11,681.1	22,679.2	49,605.2	141,540.6	326,722.8	9,543.5	41.6
1957[6]	(NA)	(NA)	17,104.7	79,354.0	12,828.9	25,208.0	52,569.0	147,838.4	(NA)	12,144.0	44.6
1956[6]	(NA)	(NA)	17,178.3	77,059.0	13,131.3	26,088.5	52,040.8	144,909.3	(NA)	11,233.2	44.1
1955[6]	(NA)	(NA)	16,818.5	72,126.0	12,954.4	25,898.3	49,217.9	135,022.5	(NA)	8,233.1	42.5
1954[7]	(NA	(NA	16,125.6	65,977.0	12,372.0	24,334.1	44,590.5	117,032.3	(NA)	8,200.7	37.6
1953[6]	(NA	(NA	17,093.0	68,590.4	13,500.9	27,065.6	48,979.1	121,659.1	(NA)	8,047.9	40.3
1952[6]	(NA	(NA)	16,061.0	61,140.6	12,706.0	25,617.6	43,763.6	109,162.1	(NA)	7,883.4	36.9
1951[6]	(NA	(NA)	15,638.0	56,283.8	12,508.9	25,263.8	40,654.8	102,085.8	(NA)	7,781.7	35.4
1950[6]	(NA	(NA)	14,769.9	47,892.9	11,778.8	23,716.5	34,600.0	89,749.8	(NA)	5,041.3	32.8
1949[6]	(NA,	(NA)	13,880.1	42,752.0	11,016.3	21,769.7	30,254.0	75,366.5	(NA)	5,066.9	28.2
1947	240,807	(NA)	14,294.0	39,695.6	11,917.9	24,316.5	30,244.0	74,290.5	(NA)	5,998.1	28.7
1939[8]	173,802	(NA)	[9]9,527.3	[9]12,706.1	7,808.2	(NA)	8,997.5	24,487.3	(NA)	(NA)	15.7
1937	166,794	(NA)	9,786.4	12,829.7	8,569.2	(NA)	10,112.9	25,173.5	(NA)	(NA)	(NA)
1935[7]	167,916	(NA)	8,262.3	9,564.8	7,203.8	(NA)	7,311.3	18,552.6	(NA)	(NA)	(NA)
1933	139,325	(NA)	6,557.9	[10]6,237.8	5,787.6	(NA)	4,940.1	14,007.5	(NA)	(NA)	10.2
1931	171,450	(NA)	(NA)	(NA)	6,163.1	(NA)	6,688.5	18,600.5	(NA)	(NA)	(NA)
1929	206,663	(NA)	9,659.7	14,284.3	8,369.7	(NA)	10,884.9	30,591.4	(NA)	(NA)	(NA)
1927	187,629	(NA)	9,072.1	13,123.1	7,848.1	(NA)	10,099.5	26,325.4	(NA)	(NA)	16.6
1925	183,877	(NA)	9,142.4	12,957.7	7,871.4	(NA)	9,979.6	25,667.6	(NA)	(NA)	(NA)
1923	192,096	(NA,	9,474.7	12,996.5	8,194.2	(NA)	10,148.6	24,569.5	(NA)	(NA)	(NA)
1921	192,059	(NA)	7,557.4	9,870.2	6,475.5	(NA)	7,451.3	17,252.8	(NA)	(NA)	(NA)
1919	270,231	(NA)	9,836.8	12,426.9	8,464.9	(NA)	9,664.0	23,841.6	(NA)	(NA)	(NA)
1914	268,436	(NA)	7,514.2	5,016.0	6,602.3	(NA)	3,782.3	8,385.6	(NA)	(NA)	(NA)
1909	264,810	(NA)	7,021.1	4,105.5	6,261.7	(NA)	3,205.2	8,160.1	(NA)	(NA)	(NA)
1904	213,444	(NA)	5,674.9	2,990.9	5,181.7	(NA)	2,440.9	6,019.2	(NA)	(NA)	(NA)
1899	204,754	(NA)	4,850.0	2,258.7	4,501.9	(NA)	1,892.6	4,647.0	(NA)	(NA)	(NA)
1899[11]	509,490	(NA)	5,478.3	2,595.6	5,097.6	(NA)	2,206.5	5,474.9	(NA)	(NA)	(NA)
1889	353,864	(NA)	4,586.5	2,209.1	4,129.4	(NA)	1,820.9	4,120.3	(NA)	(NA)	(NA)
1879	253,852	(NA)	(NA)	(NA)	2,732.6	(NA)	948.0	1,972.8	(NA)	(NA)	(NA)
1869	252,148	(NA)	(NA)	(NA)	2,054.0	(NA)	620.5	1,395.1	(NA)	(NA)	(NA)
1859	140,433	(NA)	(NA)	(NA)	1,311.2	(NA)	378.9	854.3	(NA)	(NA)	(NA)
1849	123,025	(NA,	(NA)	(NA)	957.1	(NA)	236.8	464.0	(NA)	(NA)	(NA)

(NA) Not available.

[1]The figures for 1939 to 1977 include data for employees at manufacturing establishments who were engaged in distribution and in construction work. The extent to which data for such employees were included in the figures for earlier years is not known. In addition to the employment and payroll for operating manufacturing establishments, manufacturing companies reported separately for administrative offices or auxiliary units (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.) that service the manufacturing establishment(s) of a company. These data are included in the total employment, payroll, and establishment figures for the years 1949 to 1977.

[2]The method of compiling these figures varied, as follows: All employees: For 1955 to 1977, figures represent the average of the number of production workers for the payroll period ended nearest the 12th of March, May, August, and November, plus all other employees for the payroll period ended nearest the 12th of March, for 1949 to 1954, they represent an average of all employees for the payroll period ended nearest the 12th of March, May, August, and November, for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1949 to 1977, figures are based on employment for the payroll period ended nearest the 12th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

[3]For the period 1954 to 1977, value added by manufacture represents adjusted value added, and for earlier years, unadjusted value added. Unadjusted value added is obtained by subtracting the cost of materials, supplies and containers, fuel, purchased electric energy, and contract work from the value of shipments for products manufactured plus receipts for services rendered. Adjusted value added also takes into account (a) value added by merchandising operations (that is, the difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) the net change in finished goods for work-in-process inventories between the beginning and end of the year. For 1849 to 1933, cost of contract work was not subtracted from value of shipments in calculating value added by manufacture.

[4]The figures for 1951 to 1977 include expenditures for plants under construction and not yet in operation. This information was not collected prior to 1951.

Footnotes are continued on next page.

Table 1. **Statistics for All Manufacturing Establishments Including Administrative Offices and Auxiliaries: 1977 and Earlier Years**—Con.

[5]Source: Board of Governors, Federal Reserve System.

[6]These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

[7]The 1958 and subsequent years figures include establishments classified in Industry 3273, Ready-Mixed Concrete, and establishments classified in Industry 3599, Machinery, Except Electrical, N.E.C., that were engaged exclusively or almost exclusively in machine shop repair work. The data for such establishments are excluded from the figures for the period 1939 to 1957, but are included for 1929 and earlier years. The 1954 to 1966 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry 202, Dairy Products. These establishments were not included in the figures for earlier census years. In addition, beginning with 1954, the figures include data for Industry 2411, Logging Camps and Logging Contractors, which were not included within the scope of the 1947 census. There were also a number of changes in the definition of manufacturing industries during earlier census years that affect the comparability of the historical series. Among the more important of these were the following: Figures for 1935 and later years exclude data for railroad repair shops and manufactured gas, which were included in 1899 to 1933 figures; the minimum size of establishment included for 1947 to 1966 was one employee; for 1921 to 1939, manufacturing establishments reporting value of shipments of $5,000 or more were within scope; whereas, for 1919 and earlier years, the cutoff was $500. (These changes in procedure have not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

[8]The figures for 1939, but not for earlier years, have been revised on the basis of retabulation of the returns to exclude data for establishments classified as manufacturing in 1939 and prior years but classified as nonmanufacturing beginning with 1947. Value added by manufacture for 1939, prior to revision and on a basis comparable with 1937 and previous year, was $24.7 billion.

[9]The 1939 figures for all employees were revised on the basis of estimates rather than by retabulation of the 1939 reports. The estimates were made in the following manner: For the number of employees, by multiplying the retabulated figure for number of production workers by the ratio of all employees to production workers computed from the unrevised 1939 statistics; for salaries and wages, by multiplying the retabulated wage figure by the ratio for salaries and wages also derived from the unrevised 1939 statistics.

[10]Not including data for salaried officers of corporations and their salaries and, therefore, not strictly comparable with figures for other years.

[11]These figures for 1899 and earlier years represent hand and neighborhood manufacturing operations.

Table 2. **Operating Ratios for All Manufacturing Establishments Including Administrative Offices and Auxiliaries: 1977 and Earlier Years**

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
1977	13,477	22,406	70	1,949	5.89	58	77	32	29,871	45	21.93
1976	12,445	21,423	70	1,943	5.43	57	77	34	27,274	46	20.17
1975	11,448	20,075	69	1,915	5.04	57	78	35	24,177	47	18.38
1974	10,497	17,131	70	1,957	4.59	57	78	33	22,802	46	16.60
1973	9,716	15,889	72	1,974	4.21	55	77	36	20,383	48	14.44
1972	9,155	15,799	71	1,974	3.95	54	77	40	18,603	49	13.26
1971	8,506	15,107	70	1,962	3.69	53	76	41	17,107	50	12.43
1970	7,966	13,910	70	1,971	3.43	53	78	42	15,623	51	11.26
1969	7,625	12,440	72	1,992	3.27	53	77	39	15,195	50	10.64
1968	7,263	11,869	72	2,005	3.11	53	77	38	14,598	50	10.12
1967	6,842	11,286	72	1,995	2.92	54	77	39	13,558	50	9.41
1966	6,589	(NA)	73	2,033	2.78	55	78	(NA)	13,188	50	8.93
1965	6,328	(NA)	73	2,032	2.69	55	78	(NA)	12,601	50	8.54
1964	6,162	9,726	72	2,035	2.61	54	78	37	11,940	52	8.17
1963	5,890	9,294	72	2,004	2.53	55	78	37	11,325	52	7.84
1962	5,624	8,890	72	2,001	2.44	55	79	37	10,681	53	7.38
1961	5,396	(NA)	72	1,977	2.35	56	80	(NA)	10,059	54	7.05
1960	5,255	(NA)	73	1,980	2.30	(NA)	(NA)	(NA)	9,784	54	6.78
1959	5,140	(NA)	74	1,992	2.24	(NA)	(NA)	(NA)	9,695	53	6.61
1958	4,889	(NA)	73	1,942	2.19	(NA)	(NA)	(NA)	8,832	55	6.24
1957	4,639	6,460	75	1,963	2.09	(NA)	(NA)	(NA)	8,643	54	5.86
1956	4,486	(NA)	76	1,987	1.99	(NA)	(NA)	(NA)	8,436	53	5.55
1955	4,288	(NA)	77	1,999	1.90	(NA)	(NA)	(NA)	8,028	53	5.21
1954	4,091	(NA)	77	1,967	1.83	(NA)	(NA)	(NA)	7,258	56	4.81
1953	4,013	(NA)	79	2,005	1.81	(NA)	(NA)	(NA)	7,117	56	4.49
1952	3,807	(NA)	79	2,016	1.71	(NA)	(NA)	(NA)	6,797	56	4.26
1951	3,586	(NA)	80	2,020	1.61	(NA)	(NA)	(NA)	6,539	55	4.04
1950	3,243	(NA)	80	2,013	1.46	(NA)	(NA)	(NA)	6,077	53	3.78
1949	3,080	(NA)	79	1,976	1.39	(NA)	(NA)	(NA)	5,430	57	3.46
1947	2,777	(NA)	83	2,040	1.24	(NA)	(NA)	(NA)	5,197	53	3.06
1939	1,334	(NA)	82	(NA)	(NA)	(NA)	(NA)	(NA)	2,570	52	(NA)
1937	1,311	(NA)	88	(NA)	(NA)	(NA)	(NA)	(NA)	2,572	51	(NA)
1935	1,158	(NA)	87	(NA)	(NA)	(NA)	(NA)	(NA)	2,245	52	(NA)
1933	951	(NA)	88	(NA)	(NA)	(NA)	(NA)	(NA)	2,136	45	(NA)
1931	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1929	1,479	(NA)	87	(NA)	(NA)	(NA)	(NA)	(NA)	3,167	47	(NA)
1927	1,447	(NA)	87	(NA)	(NA)	(NA)	(NA)	(NA)	2,902	50	(NA)
1925	1,417	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2,808	50	(NA)
1923	1,372	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2,593	53	(NA)
1921	1,306	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2,283	57	(NA)
1919	1,263	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2,424	52	(NA)
1914	668	(NA)	88	(NA)	(NA)	(NA)	(NA)	(NA)	1,249	53	(NA)
1909	585	(NA)	89	(NA)	(NA)	(NA)	(NA)	(NA)	1,162	50	(NA)
1904	527	(NA)	91	(NA)	(NA)	(NA)	(NA)	(NA)	1,061	50	(NA)
1899	466	(NA)	93	(NA)	(NA)	(NA)	(NA)	(NA)	958	49	(NA)
1899	474	(NA)	93	(NA)	(NA)	(NA)	(NA)	(NA)	999	47	(NA)
1889	482	(NA)	90	(NA)	(NA)	(NA)	(NA)	(NA)	894	54	(NA)
1879	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1869	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1859	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1849	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: For qualifications to data, see footnotes on table 1.

(NA) Not available.

Table 3. Selected Statistics by Major Industry Group and Industry: 1977 and 1972

Code	Industry group and industry	1977									
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
	ALL INDUSTRIES, TOTAL	300 393	359 928	118 699	19 590.1	264 013.1	13 691.0	26 686.7	157 162.7	585 165.6	1358 526.4
20	FOOD AND KINDRED PRODUCTS	20 616	26 656	11 038	1 520.0	18 543.6	1 072.0	2 112.4	11 730.7	56 062.2	192 911.6
201	MEAT PRODUCTS	3 967	4 534	1 715	309.1	3 701.5	254.0	499.8	2 817.0	7 478.0	46 276.3
2011	MEATPACKING PLANTS	2 403	2 590	737	146.2	2 110.6	116.5	237.2	1 625.9	4 010.1	31 208.2
2013	SAUSAGES AND OTHER PREPARED MEATS	1 213	1 345	570	65.0	891.9	50.1	100.4	626.6	2 039.0	8 465.4
2016	POULTRY DRESSING PLANTS	313	446	313	86.8	612.3	77.7	143.6	496.3	1 236.9	5 746.1
2017	POULTRY AND EGG PROCESSING	124	153	95	11.1	86.8	9.8	18.6	68.1	192.0	856.6
202	DAIRY PRODUCTS	2 837	3 731	1 617	153.9	1 938.9	85.0	175.6	987.6	5 648.3	26 009.8
2021	CREAMERY BUTTER	123	138	39	2.3	26.3	1.7	3.6	18.1	74.6	900.5
2022	CHEESE, NATURAL AND PROCESSED	660	791	293	26.7	287.0	22.2	44.0	223.4	948.8	6 126.0
2023	CONDENSED AND EVAPORATED MILK	167	266	148	12.3	163.2	9.0	18.9	110.7	805.2	3 188.5
2024	ICE CREAM AND FROZEN DESSERTS	507	612	229	19.1	247.0	11.4	22.7	130.1	643.7	2 008.6
2026	FLUID MILK	1 516	1 924	908	93.5	1 215.4	40.8	86.3	505.4	3 175.9	13 786.2
203	PRESERVED FRUITS AND VEGETABLES	1 752	2 379	1 263	234.7	2 336.0	198.7	377.2	1 792.8	7 684.5	20 332.8
2032	CANNED SPECIALTIES	172	203	88	26.4	296.5	21.5	42.4	224.3	[2]1 142.6	[2]2 829.2
2033	CANNED FRUITS AND VEGETABLES	648	900	519	82.6	789.8	72.6	135.0	636.6	[2]2 542.4	[2]6 662.8
2034	DEHYD. FRUITS, VEGETABLES, SOUPS	143	184	87	14.4	153.9	11.7	22.1	111.5	472.6	1 142.4
2035	PICKLES, SAUCES, SALAD DRESSINGS	380	438	168	23.5	250.2	18.9	35.7	184.9	[2]986.5	[2]2 996.5
2037	FROZEN FRUITS AND VEGETABLES	187	260	193	46.8	425.9	41.5	78.5	344.7	[2]1 322.5	[2]3 297.5
2038	FROZEN SPECIALTIES	330	394	208	41.0	419.8	32.5	63.4	290.9	[2]1 217.7	[2]3 404.4
204	GRAIN MILL PRODUCTS	2 094	3 043	1 076	112.8	1 575.6	79.3	165.5	1 034.2	6 625.6	22 344.2
2041	FLOUR, OTHER GRAIN MILL PRODUCTS	301	407	173	15.6	222.3	11.3	24.6	153.4	824.5	3 683.3
2043	CEREAL BREAKFAST FOODS	32	48	35	16.4	287.4	13.8	28.8	230.0	1 447.0	2 497.5
2044	RICE MILLING	47	59	39	4.8	61.4	4.0	8.4	40.7	341.0	1 263.4
2045	BLENDED AND PREPARED FLOUR	111	137	60	8.4	104.5	5.8	12.1	68.0	408.7	1 011.7
2046	WET CORN MILLING	24	39	27	10.9	191.1	7.8	15.7	132.2	666.7	2 014.8
2047	DOG, CAT, AND OTHER PET FOOD	218	290	132	17.7	245.5	13.4	27.7	170.3	1 392.9	3 086.7
2048	PREPARED FEEDS, NEC	1 435	2 063	610	39.1	463.4	23.2	48.2	239.6	1 544.7	8 786.8
205	BAKERY PRODUCTS	2 797	3 386	1 289	221.7	2 866.1	131.4	258.7	1 525.0	7 073.2	[3]12 235.3
2051	BREAD, CAKE, AND RELATED PRODUCTS	2 549	3 062	1 117	178.0	2 335.8	97.4	191.7	1 152.8	5 377.2	9 274.9
2052	COOKIES AND CRACKERS	263	324	172	43.8	530.2	34.0	67.0	372.2	1 695.9	2 960.5
206	SUGAR, CONFECTIONERY PRODUCTS	990	1 198	518	105.4	1 206.2	83.7	164.8	868.3	4 150.9	10 839.8
2061	RAW CANE SUGAR	49	65	55	8.0	95.8	6.3	13.6	70.8	275.7	704.0
2062	CANE SUGAR REFINING	27	40	27	10.2	168.9	7.2	15.4	116.4	526.2	2 260.0
2063	BEET SUGAR	14	57	52	11.4	143.3	9.9	21.3	119.0	344.9	1 181.7
2065	CONFECTIONERY PRODUCTS	867	962	343	58.0	584.2	47.0	89.1	415.5	2 028.0	4 498.4
2066	CHOCOLATE AND COCOA PRODUCTS	47	56	27	10.0	130.2	7.2	13.9	84.0	640.6	1 629.2
2067	CHEWING GUM	14	18	14	7.7	83.9	6.0	11.6	62.7	335.5	566.5
207	FATS AND OILS	591	869	458	41.1	561.4	29.6	64.3	365.4	1 905.2	14 480.0
2074	COTTONSEED OIL MILLS	62	97	71	5.2	51.5	4.1	9.3	35.9	197.4	859.2
2075	SOYBEAN OIL MILLS	65	121	87	9.4	130.7	6.6	14.7	87.8	373.8	7 580.0
2076	VEGETABLE OIL MILLS, NEC	37	42	19	1.5	17.6	1.1	2.5	12.2	58.4	360.8
2077	ANIMAL AND MARINE FATS AND OILS	384	500	201	12.4	171.2	8.7	19.2	103.8	583.8	1 655.0
2079	SHORTENING AND COOKING OILS	66	109	80	12.7	190.5	9.0	18.7	125.8	691.8	4 025.0
208	BEVERAGES	2 440	3 104	1 689	195.1	2 848.9	99.5	200.1	1 368.7	9 900.9	23 329.0
2082	MALT BEVERAGES	81	131	91	44.0	857.5	31.1	61.1	589.1	2 602.3	6 652.6
2083	MALT	27	40	27	1.6	27.4	1.2	2.5	20.0	101.4	499.3
2084	WINES, BRANDY, AND BRANDY SPIRITS	233	269	76	9.2	134.1	5.4	10.5	69.6	510.4	1 362.5
2085	DISTILLED LIQUOR, EXCEPT BRANDY	64	104	77	15.7	232.1	12.0	23.8	168.1	[2]1 149.7	[2]2 296.1
2086	BOTTLED AND CANNED SOFT DRINKS	1 758	2 192	1 286	114.1	1 448.8	43.4	89.3	444.8	4 084.5	10 007.2
2087	FLAVORING EXTRACTS, SIRUPS, NEC	319	368	132	10.5	149.1	6.3	12.9	77.1	1 452.6	2 511.3
209	MISC. FOODS, KINDRED PRODUCTS	3 794	4 412	1 413	146.2	1 508.8	110.8	206.4	971.6	5 595.7	17 064.3
2091	CANNED AND CURED SEAFOODS	215	255	118	16.0	147.0	13.8	25.0	113.4	441.0	1 440.6
2092	FRESH OR FROZEN PACKAGED FISH	906	990	406	34.3	260.8	29.6	49.7	188.9	705.5	2 664.9
2095	ROASTED COFFEE	133	167	89	10.9	164.8	7.2	15.0	103.2	988.0	5 616.4
2097	MANUFACTURED ICE	543	678	63	5.3	47.8	3.5	6.7	25.5	106.1	149.4
2098	MACARONI AND SPAGHETTI	189	205	88	8.2	96.0	5.7	12.3	56.5	327.0	662.0
2099	FOOD PREPARATIONS, NEC	1 872	2 117	669	71.5	792.6	50.9	97.7	484.1	3 028.1	6 531.0
21	TOBACCO PRODUCTS	155	228	123	60.6	750.7	50.4	92.6	570.7	4 334.1	9 050.6
2111	CIGARETTES	8	14	13	39.0	567.7	32.5	58.9	442.0	3 803.1	8 377.4
2121	CIGARS	94	101	34	7.7	54.9	7.0	12.7	44.0	125.6	242.7
2131	CHEWING AND SMOKING TOBACCO	28	35	19	3.2	32.1	2.5	4.4	22.0	188.9	354.3
2141	TOBACCO STEMMING AND REDRYING	38	78	57	10.7	96.1	8.4	16.6	62.6	216.5	2 076.2
22	TEXTILE MILL PRODUCTS	5 733	7 202	4 131	875.7	7 881.4	764.6	1 523.1	6 202.8	16 104.5	40 550.5
2211	WEAVING MILLS, COTTON	211	314	192	117.2	1 046.8	107.2	214.3	902.0	1 944.5	4 431.2
2221	WEAV'G MILLS, MANMADE FIBER, SILK	267	449	351	151.0	1 428.7	134.6	275.4	1 168.7	2 790.9	6 325.9
2231	WEAVING AND FINISHING MILLS, WOOL	153	165	84	14.6	136.6	12.6	25.9	105.8	312.9	583.3
2241	NARROW FABRIC MILLS	291	335	182	20.8	171.6	18.1	35.7	130.9	350.8	682.9
225	KNITTING MILLS	2 318	2 617	1 511	235.9	1 911.0	205.9	389.4	1 469.9	3 863.0	9 470.0
2251	WOMEN'S HOSIERY, EXCEPT SOCKS	176	200	119	26.6	191.3	23.8	44.1	156.6	457.0	871.2
2252	HOSIERY, NEC	382	415	257	32.2	218.7	29.0	52.6	179.4	401.5	921.3
2253	KNIT OUTERWEAR MILLS	903	953	551	73.0	582.0	62.7	114.0	422.0	1 159.5	2 335.9
2254	KNIT UNDERWEAR MILLS	80	92	74	25.2	175.2	23.4	42.7	151.8	305.7	648.9
2257	CIRCULAR KNIT FABRIC MILLS	462	530	310	51.8	493.0	44.0	88.2	371.2	1 033.5	3 169.4
2258	WARP KNIT FABRIC MILLS	213	235	153	23.7	226.7	20.0	41.9	169.8	464.8	1 427.6
2259	KNITTING MILLS, NEC	191	192	47	3.4	24.1	3.1	6.0	19.0	40.9	95.7
226	TEXTILE FINISHING, EXCEPT WOOL	602	678	395	72.1	740.0	59.8	123.5	554.0	1 416.7	3 994.3
2261	FINISHING PLANTS, COTTON	194	210	94	20.8	211.4	17.3	35.7	162.2	350.7	759.5
2262	FINISH. PLTS, MANMADE FIBER, SILK	248	285	189	37.2	396.2	30.4	63.7	293.4	792.0	2 404.3
2269	FINISHING PLANTS, NEC	176	183	112	14.1	132.3	12.1	24.1	98.4	274.0	830.6

See footnotes at end of table.

Table 3. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977--Continued							1972			
		New capital expenditures[4]			Inventories		Ratios		All employees				
		Total (million dollars)	Structures and additions to plant (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Specialization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
	ALL INDUSTRIES, TOTAL. . . .	47 459.0	8 499.5	38 959.5	188 436.4	174 865.0	(NA)	(NA)	19 028.7	174 205.5	353 994.0	756 534.3	24 077.7
20	FOOD AND KINDRED PRODUCTS. . . .	4 214.9	908.5	3 306.4	16 984.9	16 416.3	(NA)	(NA)	1 569.3	12 920.2	35 614.8	115 051.5	2 355.0
201	MEAT PRODUCTS.	532.7	144.7	387.9	1 379.7	1 273.1	(NA)	(NA)	307.7	2 543.6	4 960.9	31 477.9	299.6
2011	MEATPACKING PLANTS	236.7	63.6	173.1	700.1	651.2	98	84	157.5	1 532.1	2 968.1	23 003.4	167.7
2013	SAUSAGES AND OTHER PREPARED MEATS. .	151.6	40.4	111.2	406.4	375.1	97	60	58.1	542.2	1 099.9	4 632.4	74.0
2016	POULTRY DRESSING PLANTS.	126.1	36.6	89.5	206.8	188.3	99	92	77.6	391.8	724.4	3 254.1	45.5
2017	POULTRY AND EGG PROCESSING	18.3	4.2	14.1	66.3	58.6	99	73	14.6	77.5	168.5	588.1	12.4
202	DAIRY PRODUCTS	389.0	89.3	299.7	1 180.2	1 096.9	(NA)	(NA)	188.7	1 596.4	4 054.1	16 311.5	274.7
2021	CREAMERY BUTTER.	8.3	1.9	6.4	24.2	25.4	80	61	4.0	31.0	82.3	808.3	7.8
2022	CHEESE, NATURAL AND PROCESSED. . . .	57.2	12.9	44.3	550.4	528.3	91	93	25.2	186.3	492.3	3 195.0	49.9
2023	CONDENSED AND EVAPORATED MILK. . . .	56.2	12.1	44.2	175.0	164.4	79	76	12.3	108.3	467.3	1 667.8	32.1
2024	ICE CREAM AND FROZEN DESSERTS. . . .	56.8	20.3	36.4	126.6	116.9	94	75	21.1	184.7	459.8	1 244.7	35.8
2026	FLUID MILK	210.5	42.0	168.5	304.0	261.8	88	94	126.1	1 086.1	2 552.4	9 395.7	149.2
203	PRESERVED FRUITS AND VEGETABLES. .	470.5	104.8	365.7	4 537.7	4 193.5	(NA)	(NA)	233.1	1 533.5	4 514.4	11 478.6	358.4
2032	CANNED SPECIALTIES	46.7	11.2	35.5	527.8	508.4	80	89	29.1	217.8	814.6	1 876.6	44.1
2033	CANNED FRUITS AND VEGETABLES	147.1	33.3	113.8	2 233.5	2 062.1	90	89	89.8	559.9	1 625.1	4 043.8	113.1
2034	DEHYD. FRUITS, VEGETABLES, SOUPS . .	52.5	15.6	36.9	281.9	267.0	94	88	12.4	84.3	235.7	607.3	18.9
2035	PICKLES, SAUCES, SALAD DRESSINGS . .	52.3	11.7	40.6	447.8	426.7	89	86	20.8	146.2	428.0	1 166.7	43.4
2037	FROZEN FRUITS AND VEGETABLES	87.7	14.1	73.6	724.4	640.3	89	89	42.8	261.2	694.6	1 848.8	57.8
2038	FROZEN SPECIALTIES	84.1	18.9	65.2	322.2	288.9	93	93	38.3	264.1	716.3	1 935.5	81.0
204	GRAIN MILL PRODUCTS.	620.0	126.2	493.8	1 714.5	1 674.5	(NA)	(NA)	111.4	1 012.8	3 698.7	12 162.2	266.6
2041	FLOUR, OTHER GRAIN MILL PRODUCTS . .	52.4	15.2	37.2	263.2	297.8	98	71	16.1	152.8	509.8	2 380.0	30.0
2043	CEREAL BREAKFAST FOODS	79.8	10.8	69.0	152.1	150.3	74	93	12.9	140.9	688.4	1 125.5	24.9
2044	RICE MILLING	40.0	11.5	28.5	411.4	329.4	100	96	4.0	30.9	148.3	680.6	6.3
2045	BLENDED AND PREPARED FLOUR	17.6	5.8	11.8	80.6	72.3	94	75	7.9	74.9	306.8	704.6	13.7
2046	WET CORN MILLING	232.2	34.2	198.0	158.4	169.8	94	93	12.1	137.7	331.2	832.3	59.7
2047	DOG, CAT, AND OTHER PET FOOD	67.2	13.4	53.7	200.7	193.8	92	88	14.3	135.1	613.8	1 401.9	61.1
2048	PREPARED FEEDS, NEC.	130.9	35.3	95.6	448.2	461.0	96	95	44.0	340.5	1 100.5	5 037.1	70.8
205	BAKERY PRODUCTS.	365.4	78.4	287.1	407.1	382.5	(NA)	(NA)	234.6	2 029.0	4 537.0	7 895.5	207.3
2051	BREAD, CAKE, AND RELATED PRODUCTS. .	279.9	52.2	227.6	235.1	220.6	99	98	193.5	1 692.2	3 518.1	6 132.0	170.6
2052	COOKIES AND CRACKERS	85.6	26.1	59.4	172.0	161.9	94	94	41.1	336.9	1 018.9	1 763.5	36.7
206	SUGAR, CONFECTIONERY PRODUCTS. . .	313.0	60.3	252.6	1 661.8	1 551.8	(NA)	(NA)	107.1	831.5	2 472.9	6 620.1	186.2
2061	RAW CANE SUGAR	43.4	4.0	39.3	107.9	97.3	100	99	7.1	60.7	151.7	406.5	28.8
2062	CANE SUGAR REFINING.	53.4	10.8	42.7	345.1	275.9	99	100	10.9	119.5	383.9	1 742.7	23.6
2063	BEET SUGAR	43.5	4.6	38.9	467.1	469.2	99	99	11.5	92.3	310.5	880.2	34.9
2065	CONFECTIONERY PRODUCTS	115.5	25.9	89.5	450.2	442.6	95	94	60.7	422.2	1 115.7	2 472.5	53.4
2066	CHOCOLATE AND COCOA PRODUCTS	35.0	11.2	23.8	175.1	139.2	94	94	10.0	83.3	282.6	735.5	26.5
2067	CHEWING GUM.	22.1	3.7	18.4	116.4	127.6	92	77	6.9	53.6	228.4	382.6	19.0
207	FATS AND OILS.	208.1	37.3	170.9	1 484.2	1 972.7	(NA)	(NA)	40.3	366.4	1 290.5	6 908.8	121.4
2074	COTTONSEED OIL MILLS	13.0	2.9	10.0	195.4	249.6	88	89	5.5	34.2	88.2	458.7	9.9
2075	SOYBEAN OIL MILLS.	72.3	14.1	58.2	804.9	1 205.9	87	98	9.1	82.4	350.0	3 357.2	41.9
2076	VEGETABLE OIL MILLS, NEC	7.4	2.1	5.3	89.3	83.1	86	58	1.2	11.6	44.8	261.0	3.1
2077	ANIMAL AND MARINE FATS AND OILS. . .	53.3	8.9	44.3	70.2	54.0	94	68	11.6	106.0	296.7	764.7	31.0
2079	SHORTENING AND COOKING OILS.	62.1	9.2	53.0	324.3	380.1	89	77	12.9	133.7	512.6	2 068.1	35.5
208	BEVERAGES.	993.9	197.0	796.8	2 940.0	2 759.8	(NA)	(NA)	212.3	2 032.7	6 689.0	13 869.4	468.2
2082	MALT BEVERAGES	410.3	74.8	335.5	444.6	406.5	100	100	51.5	652.8	1 993.6	4 054.4	155.6
2083	MALT	39.6	19.5	20.1	134.2	183.0	100	100	1.7	20.0	55.0	226.3	7.9
2084	WINES, BRANDY, AND BRANDY SPIRITS. .	51.1	13.6	37.6	559.5	513.5	98	97	9.4	91.5	407.9	865.0	43.7
2085	DISTILLED LIQUOR, EXCEPT BRANDY. . .	36.3	9.8	26.5	1 027.9	996.6	98	98	18.4	183.1	1 024.0	1 797.9	32.8
2086	BOTTLED AND CANNED SOFT DRINKS . . .	423.6	72.5	351.0	551.7	467.2	98	97	121.1	984.4	2 336.7	5 453.8	207.1
2087	FLAVORING EXTRACTS, SIRUPS, NEC. . .	33.1	6.9	26.2	222.1	193.1	92	86	10.1	100.9	871.9	1 472.0	21.1
209	MISC. FOODS, KINDRED PRODUCTS. . .	322.4	70.5	251.9	1 679.9	1 511.5	(NA)	(NA)	134.2	974.2	3 397.3	8 335.5	172.5
2091	CANNED AND CURED SEAFOODS.	28.1	8.9	19.2	311.1	256.6	81	96	16.0	99.0	231.4	809.8	15.5
2092	FRESH OR FROZEN PACKAGED FISH. . . .	56.8	19.0	37.8	376.7	313.3	97	97	25.0	129.6	287.5	1 084.4	17.8
2095	ROASTED COFFEE	41.9	1.4	40.4	405.3	383.9	96	98	12.9	131.5	825.8	2 328.7	31.5
2097	MANUFACTURED ICE	16.9	5.2	11.6	4.4	3.3	99	99	6.8	42.6	91.7	116.4	8.9
2098	MACARONI AND SPAGHETTI	12.6	3.3	9.2	48.4	45.1	99	83	7.3	59.4	155.7	348.3	7.1
2099	FOOD PREPARATIONS, NEC	166.2	32.6	133.6	534.1	509.4	89	83	66.2	512.1	1 805.2	3 647.9	91.8
21	TOBACCO PRODUCTS	181.5	56.7	124.7	3 711.9	3 615.2	(NA)	(NA)	66.3	502.1	2 637.2	5 920.2	133.2
2111	CIGARETTES	118.0	41.2	76.8	2 652.2	2 564.7	97	99	38.1	344.8	2 188.4	3 744.6	101.5
2121	CIGARS	3.3	.3	3.0	57.8	54.9	(D)	92	13.5	68.2	191.9	338.7	5.4
2131	CHEWING AND SMOKING TOBACCO. . . .	7.3	1.9	5.4	99.8	94.7	97	75	3.3	23.0	103.2	180.2	12.1
2141	TOBACCO STEMMING AND REDRYING. . . .	52.8	13.3	39.6	902.2	900.9	(D)	94	11.4	66.0	153.6	1 656.8	14.1
22	TEXTILE MILL PRODUCTS.	1 223.5	198.9	1 024.5	5 509.9	5 103.5	(NA)	(NA)	952.6	6 051.0	11 715.8	28 063.9	1 127.4
2211	WEAVING MILLS, COTTON.	187.2	32.8	154.4	657.8	553.9	84	66	121.3	745.2	1 256.3	2 660.6	72.7
2221	WEAVING MILLS, MANMADE FIBER, SILK. .	260.2	23.3	236.9	871.0	834.8	86	74	149.7	979.4	1 831.6	3 856.6	136.2
2231	WEAVING AND FINISHING MILLS, WOOL. .	14.9	4.0	11.0	111.0	96.2	83	80	19.4	132.1	239.4	450.1	11.6
2241	NARROW FABRIC MILLS.	16.2	4.0	12.1	109.3	106.1	96	97	27.1	162.3	289.0	566.2	11.2
225	KNITTING MILLS	245.2	48.8	196.4	1 315.4	1 218.8	(NA)	(NA)	276.5	1 647.0	3 180.7	7 703.3	401.6
2251	WOMEN'S HOSIERY, EXCEPT SOCKS. . . .	16.6	3.9	12.6	122.9	119.8	91	95	49.5	247.4	438.8	984.7	15.9
2252	HOSIERY, NEC	14.8	3.6	11.3	127.3	118.8	96	96	32.6	159.7	295.2	600.6	12.5
2253	KNIT OUTERWEAR MILLS	49.9	5.3	44.6	393.4	342.5	90	53	74.4	430.4	799.5	1 703.8	45.9
2254	KNIT UNDERWEAR MILLS	14.5	4.2	10.2	131.3	116.8	80	86	26.0	134.6	251.5	544.6	7.0
2257	CIRCULAR KNIT FABRIC MILLS	91.6	11.5	80.0	316.2	307.2	90	88	68.1	492.6	1 036.0	2 808.8	270.1
2258	WARP KNIT FABRIC MILLS	56.3	20.1	36.2	209.0	198.8	93	83	22.0	159.2	317.8	987.7	48.2
2259	KNITTING MILLS, NEC.	1.5	.2	1.4	15.2	14.8	97	81	3.9	23.1	41.8	73.1	2.0
226	TEXTILE FINISHING, EXCEPT WOOL . .	125.2	20.6	104.6	434.6	396.7	(NA)	(NA)	79.5	564.0	1 113.9	2 625.8	115.5
2261	FINISHING PLANTS, COTTON	24.8	3.1	21.6	80.1	68.2	83	39	25.7	177.2	322.0	623.3	31.5
2262	FINISH. PLTS, MANMADE FIBER, SILK. .	75.9	12.2	63.6	266.5	258.4	80	57	35.2	263.2	521.5	1 365.2	48.8
2269	FINISHING PLANTS, NEC.	24.6	5.3	19.4	88.0	70.1	95	43	18.5	123.5	270.4	637.3	35.2

See footnotes at end of table.

Table 3. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**–Con.

Code	Industry group and industry	1977									
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
227	FLOOR COVERING MILLS	533	592	285	55.8	556.7	44.3	91.4	379.7	1 530.1	4 774.5
2271	WOVEN CARPETS AND RUGS	71	71	16	2.8	24.8	2.5	4.7	20.0	47.1	138.7
2272	TUFTED CARPETS AND RUGS	397	449	251	50.2	506.5	39.4	82.2	341.1	1 438.2	4 520.7
2279	CARPETS AND RUGS, NEC	72	72	18	2.8	25.3	2.4	4.5	18.6	44.8	115.2
228	YARN AND THREAD MILLS	529	798	608	140.5	1 184.4	127.3	258.2	994.3	2 254.5	6 114.4
2281	YARN MILLS, EXCEPT WOOL	274	456	370	93.0	782.7	85.6	175.2	675.5	1 480.3	3 864.9
2282	THROWING AND WINDING MILLS	170	196	148	30.5	262.3	27.1	54.5	210.4	490.4	1 510.1
2283	WOOL YARN MILLS	71	76	43	4.1	33.1	3.7	7.3	27.3	81.8	194.9
2284	THREAD MILLS	58	70	47	12.8	106.3	10.9	21.1	81.1	201.9	544.4
229	MISCELLANEOUS TEXTILE GOODS	1 150	1 254	523	67.9	705.6	54.8	109.2	497.5	1 641.1	4 173.9
2291	FELT GOODS, EXC. WOVEN FELT, HATS	37	46	27	4.3	50.7	3.3	6.7	33.1	103.0	197.7
2292	LACE GOODS	68	71	24	2.2	17.9	1.9	3.6	14.0	27.7	45.9
2293	PADDINGS AND UPHOLSTERY FILLING	113	120	56	5.2	52.9	4.1	8.4	36.4	124.5	251.8
2294	PROCESSED TEXTILE WASTE	95	99	39	3.7	31.2	3.1	6.3	23.1	61.7	178.4
2295	COATED FABRICS, NOT RUBBERIZED	175	191	109	13.6	182.3	9.9	20.9	117.1	413.1	1 059.0
2296	TIRE CORD AND FABRIC	D	20	20	9.6	94.7	8.5	16.2	78.1	242.1	1 013.2
2297	NONWOVEN FABRICS	81	100	74	13.0	139.8	10.4	21.1	100.2	386.0	864.4
2298	CORDAGE AND TWINE	151	171	84	9.5	79.5	7.9	14.2	53.7	173.8	332.2
2299	TEXTILE GOODS, NEC	432	436	90	6.7	56.6	5.7	11.8	41.8	109.2	231.1
23	APPAREL, OTHER TEXTILE PRODS	23 754	26 505	11 932	1 334.3	9 658.6	1 156.6	2 037.6	7 252.6	19 671.3	40 245.1
2311	MEN'S AND BOYS' SUITS AND COATS	619	737	467	98.7	822.2	86.2	152.9	645.4	1 574.4	2 767.5
232	MEN'S AND BOYS' FURNISHINGS	2 121	3 013	2 129	364.5	2 340.1	323.4	575.3	1 863.5	4 935.2	10 003.2
2321	MEN'S, BOYS' SHIRTS, NIGHTWEAR	669	928	679	114.7	711.3	103.0	184.1	569.9	1 445.7	2 934.6
2322	MEN'S AND BOYS' UNDERWEAR	56	76	59	15.1	92.2	13.7	23.8	79.0	218.2	419.8
2323	MEN'S AND BOYS' NECKWEAR	198	207	81	6.3	57.5	5.1	8.7	33.4	117.5	223.8
2327	MEN'S AND BOYS' SEPARATE TROUSERS	404	514	335	70.9	474.0	61.9	107.6	372.0	845.6	1 716.0
2328	MEN'S AND BOYS' WORK CLOTHING	347	656	575	113.7	719.4	101.6	183.7	589.9	1 765.4	3 641.9
2329	MEN'S AND BOYS' CLOTHING, NEC	553	632	400	43.8	285.8	38.1	67.4	219.3	542.8	1 065.1
233	WOMEN'S AND MISSES' OUTERWEAR	11 121	11 834	5 556	447.5	3 152.8	387.3	660.9	2 304.2	6 429.8	12 720.3
2331	WOMEN'S, MISSES' BLOUSES, WAISTS	1 292	1 415	952	83.3	569.0	73.8	125.0	424.3	1 192.5	2 333.6
2335	WOMEN'S AND MISSES' DRESSES	6 753	6 953	2 473	175.3	1 197.1	153.0	261.0	882.5	2 233.7	4 188.6
2337	WOMEN'S, MISSES' SUITS AND COATS	1 558	1 672	1 067	84.7	654.0	72.7	123.3	468.5	1 429.6	2 912.9
2339	WOMEN'S, MISSES' OUTERWEAR, NEC	1 625	1 794	1 064	104.1	732.7	87.9	151.5	528.9	1 574.0	3 285.1
234	WOMEN'S, CHILDREN'S UNDERGARMS	693	878	595	91.8	613.2	78.6	139.6	448.9	1 249.7	2 430.8
2341	WOMEN'S AND CHILDREN'S UNDERWEAR	548	698	479	72.9	472.1	63.4	112.6	359.8	915.3	1 780.8
2342	BRASSIERES AND ALLIED GARMENTS	150	180	116	18.9	141.1	15.2	27.0	89.1	334.4	650.0
235	HATS, CAPS, AND MILLINERY	381	409	169	15.1	105.2	13.3	23.8	79.1	185.5	359.9
2351	MILLINERY	151	151	47	2.7	20.2	2.2	3.7	13.7	32.8	75.1
2352	HATS AND CAPS, EXCEPT MILLINERY	230	258	122	12.4	85.1	11.1	20.1	65.3	152.7	284.8
236	CHILDREN'S OUTERWEAR	844	1 002	686	71.2	459.1	61.2	107.6	348.9	879.2	1 717.3
2361	CHILDREN'S DRESSES AND BLOUSES	455	519	374	35.2	228.4	30.4	52.5	169.7	444.6	824.7
2363	CHILDREN'S COATS AND SUITS	108	120	70	6.7	45.8	5.7	9.7	35.1	90.2	173.8
2369	CHILDREN'S OUTERWEAR, NEC	307	363	242	29.3	184.9	25.1	45.4	144.1	344.4	718.8
2371	FUR GOODS	620	620	48	4.0	51.5	3.2	5.1	36.2	112.8	383.4
238	MISC. APPAREL AND ACCESSORIES	1 207	1 284	593	56.3	407.5	47.9	84.8	288.2	845.3	1 649.5
2381	FABRIC DRESS AND WORK GLOVES	100	132	92	10.9	69.0	9.9	18.0	56.3	160.9	312.4
2384	ROBES AND DRESSING GOWNS	137	151	98	9.5	64.3	8.2	14.7	47.8	139.5	288.3
2385	WATERPROOF OUTERGARMENTS	157	167	105	12.0	89.4	10.1	17.9	61.6	194.4	348.8
2386	LEATHER AND SHEEP LINED CLOTHING	236	239	80	6.7	54.7	5.9	10.4	41.1	94.8	214.1
2387	APPAREL BELTS	281	284	119	9.4	76.1	7.3	12.6	44.6	150.3	286.9
2389	APPAREL AND ACCESSORIES, NEC	304	311	99	7.8	54.0	6.5	11.2	36.9	105.4	199.0
239	MISC. FABRICATED TEXTILE PRODS	6 444	6 728	1 689	185.2	1 706.9	155.5	287.6	1 238.3	3 459.4	8 213.2
2391	CURTAINS AND DRAPERIES	1 650	1 712	324	31.7	224.7	27.2	47.9	163.6	407.3	1 013.1
2392	HOUSEFURNISHINGS, NEC	980	1 051	403	47.5	366.4	39.8	75.4	260.0	782.9	2 294.0
2393	TEXTILE BAGS	211	228	90	8.2	66.7	6.8	12.9	46.8	122.2	321.8
2394	CANVAS AND RELATED PRODUCTS	987	1 003	148	13.9	121.6	11.0	19.3	75.1	237.4	486.8
2395	PLEATING AND STITCHING	770	778	206	16.1	130.9	13.2	22.9	89.0	281.8	620.2
2396	AUTOMOTIVE AND APPAREL TRIMMINGS	686	715	188	30.9	476.4	26.3	51.7	374.0	1 000.2	2 166.3
2397	SCHIFFLI MACHINE EMBROIDERIES	357	363	58	6.0	56.3	5.3	10.4	42.5	96.7	158.0
2399	FABRICATED TEXTILE PRODUCTS, NEC	845	878	272	31.1	263.8	26.0	47.1	187.4	531.0	1 152.9
24	LUMBER AND WOOD PRODUCTS	34 962	37 302	7 056	692.4	7 424.7	594.8	1 147.6	5 795.0	16 222.9	39 919.4
2411	LOGGING CAMPS, LOG CONTRACTORS	15 344	15 469	708	83.3	1 009.0	74.5	127.7	840.1	2 418.7	6 230.1
242	SAWMILLS AND PLANING MILLS	8 263	9 000	2 273	211.3	2 228.3	187.8	375.8	1 849.0	4 975.0	11 969.3
2421	SAWMILLS, PLANING MILLS, GENERAL	6 966	7 544	1 827	175.2	1 943.0	155.8	315.6	1 622.7	4 452.8	10 866.7
2426	HARDWOOD DIMENSION AND FLOORING	845	890	345	29.1	225.0	25.8	49.8	177.5	413.1	850.0
2429	SPECIAL PRODUCT SAWMILLS, NEC	522	566	101	7.0	60.3	6.1	10.4	48.8	109.1	252.6
243	MILLWORK, PLYWOOD, STRUC. MEMBS.	5 710	6 149	1 878	197.1	2 216.4	167.4	328.8	1 714.9	4 700.4	11 381.9
2431	MILLWORK	2 209	2 333	692	68.6	742.2	56.6	108.4	542.0	1 497.9	3 928.1
2434	WOOD KITCHEN CABINETS	2 451	2 583	510	46.2	481.1	38.7	72.3	352.3	868.6	1 590.8
2435	HARDWOOD VENEER AND PLYWOOD	274	321	227	22.3	211.5	19.1	37.9	162.0	420.2	1 250.4
2436	SOFTWOOD VENEER AND PLYWOOD	129	256	224	46.2	634.6	41.9	89.4	556.9	1 583.7	3 804.8
2439	STRUCTURAL WOOD MEMBERS, NEC	620	656	225	13.8	147.0	11.0	20.8	101.6	330.0	807.7
244	WOOD CONTAINERS	1 862	1 949	540	37.8	299.6	33.4	61.3	233.7	539.7	1 217.1
2441	NAILED WOOD BOXES AND SHOOK	391	396	110	8.6	68.6	7.5	13.7	53.6	116.2	263.3
2448	WOOD PALLETS AND SKIDS	1 267	1 290	348	20.3	163.8	17.9	32.1	126.3	303.1	698.0
2449	WOOD CONTAINERS, NEC	238	263	82	8.9	67.2	8.0	15.5	53.7	120.4	255.8
245	WOOD BUILDINGS AND MOBILE HOMES	803	1 165	752	79.5	858.2	63.0	121.1	576.2	1 789.1	5 147.9

See footnotes at end of table.

Table 3. Selected Statistics by Major Industry Group and Industry: 1977 and 1972—Con.

Code	Industry group and industry	1977—Continued							1972			
		New capital expenditures[4]			Inventories		Ratios		All employees				
		Total (million dollars)	Structures and additions to plant (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Specialization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
227	FLOOR COVERING MILLS	82.5	12.1	70.4	753.5	694.2	(NA)	(NA)	59.9	415.3	1 076.0	3 153.0	74.7
2271	WOVEN CARPETS AND RUGS	1.1	.4	.8	26.9	23.9	(D)	81	6.5	44.5	93.2	212.3	3.2
2272	TUFTED CARPETS AND RUGS	78.7	11.1	67.6	696.8	644.1	96	99	50.1	348.0	926.8	2 775.2	67.1
2279	CARPETS AND RUGS, NEC	2.6	.6	2.0	29.9	26.2	(D)	74	3.3	23.6	58.2	165.5	4.4
228	YARN AND THREAD MILLS	180.0	23.9	156.1	616.0	592.1	(NA)	(NA)	147.5	866.1	1 579.5	4 242.8	221.7
2281	YARN MILLS, EXCEPT WOOL	114.4	13.5	101.0	363.6	362.2	92	72	89.6	516.3	867.2	2 248.3	96.3
2282	THROWING AND WINDING MILLS	51.1	8.3	42.9	132.3	122.1	92	55	38.0	230.9	477.8	1 427.6	113.7
2283	WOOL YARN MILLS	2.7	.2	2.5	17.4	18.7	90	71	8.3	49.7	92.7	221.4	4.2
2284	THREAD MILLS	11.8	2.0	9.8	102.7	89.2	96	91	11.7	69.2	141.8	345.4	7.5
229	MISCELLANEOUS TEXTILE GOODS	112.0	29.4	82.6	641.3	610.5	(NA)	(NA)	71.9	539.7	1 149.4	2 813.1	82.3
2291	FELT GOODS, EXC. WOVEN FELT, HATS	5.7	1.5	4.3	36.3	33.0	82	82	5.0	38.3	80.5	146.5	2.8
2292	LACE GOODS	1.0	.2	.8	12.6	11.7	98	98	2.9	17.3	29.4	47.1	1.7
2293	PADDINGS AND UPHOLSTERY FILLING	5.8	1.9	4.0	19.6	19.1	92	84	4.4	34.2	64.5	134.6	2.9
2294	PROCESSED TEXTILE WASTE	5.8	1.9	3.9	27.5	26.2	98	95	3.6	22.2	50.9	133.8	3.2
2295	COATED FABRICS, NOT RUBBERIZED	26.0	7.8	18.2	190.0	188.4	87	89	18.0	167.8	382.4	865.8	29.6
2296	TIRE CORD AND FABRIC	7.0	.5	6.6	126.7	130.0	90	99	10.0	70.0	145.8	685.1	8.8
2297	NONWOVEN FABRICS	41.1	10.5	30.5	121.5	104.0	86	66	10.8	80.6	191.8	397.4	15.0
2298	CORDAGE AND TWINE	6.5	1.7	4.9	79.4	73.4	90	95	9.0	55.4	96.3	191.0	4.9
2299	TEXTILE GOODS, NEC	13.0	3.5	9.4	27.8	24.7	96	68	8.3	53.9	107.7	211.8	13.4
23	APPAREL, OTHER TEXTILE PRODS	456.7	114.0	342.6	5 535.8	5 125.3	(NA)	(NA)	1 368.3	7 212.0	13 487.5	27 809.2	363.5
2311	MEN'S AND BOYS' SUITS AND COATS	25.8	5.8	20.0	470.5	416.8	93	92	124.8	770.3	1 342.2	2 396.9	22.5
232	MEN'S AND BOYS' FURNISHINGS	118.3	32.2	86.1	1 547.6	1 409.0	(NA)	(NA)	363.4	1 692.3	3 241.6	6 904.6	90.2
2321	MEN'S, BOYS' SHIRTS, NIGHTWEAR	25.9	6.2	19.7	501.4	442.6	92	92	113.4	514.9	1 003.8	2 104.3	24.1
2322	MEN'S AND BOYS' UNDERWEAR	2.6	.5	2.0	55.1	50.8	87	91	16.0	68.6	130.9	239.3	5.7
2323	MEN'S AND BOYS' NECKWEAR	2.6	.8	1.8	29.6	26.3	100	97	11.1	70.0	143.4	294.9	4.0
2327	MEN'S AND BOYS' SEPARATE TROUSERS	22.8	5.0	17.9	281.9	279.8	84	88	91.3	439.3	784.9	1 745.0	22.2
2328	MEN'S AND BOYS' WORK CLOTHING	44.1	13.8	30.3	477.7	427.4	89	94	89.6	389.0	784.8	1 738.0	24.1
2329	MEN'S AND BOYS' CLOTHING, NEC	20.2	5.9	14.3	201.9	182.2	83	80	41.9	210.4	393.8	783.2	10.1
233	WOMEN'S AND MISSES' OUTERWEAR	133.6	36.9	96.7	1 338.2	1 259.4	(NA)	(NA)	432.6	2 269.6	4 102.0	8 278.2	98.3
2331	WOMEN'S, MISSES' BLOUSES, WAISTS	24.0	4.9	19.2	222.5	197.3	85	75	63.0	328.1	592.4	1 254.9	30.0
2335	WOMEN'S AND MISSES' DRESSES	45.2	10.8	34.5	386.1	363.0	95	95	211.6	1 076.9	1 888.7	3 580.0	32.6
2337	WOMEN'S, MISSES' SUITS AND COATS	22.0	7.5	14.5	297.0	291.1	80	83	75.9	446.7	839.8	1 805.3	16.4
2339	WOMEN'S, MISSES' OUTERWEAR, NEC	42.4	13.8	28.5	432.6	408.0	80	81	82.1	417.9	781.0	1 638.0	19.3
234	WOMEN'S, CHILDREN'S UNDERGARMS	22.9	6.3	16.7	397.7	373.1	(NA)	(NA)	105.4	524.8	1 049.0	1 978.9	24.0
2341	WOMEN'S AND CHILDREN'S UNDERWEAR	18.7	5.5	13.2	275.9	256.5	95	87	77.5	372.0	709.0	1 331.9	19.3
2342	BRASSIERES AND ALLIED GARMENTS	4.2	.8	3.5	121.9	116.7	92	99	28.0	152.8	340.0	647.0	4.6
235	HATS, CAPS, AND MILLINERY	4.1	1.2	2.9	57.5	53.4	(NA)	(NA)	14.5	72.6	133.4	229.1	2.2
2351	MILLINERY	.2	(Z)	.2	5.8	5.7	99	(D)	3.2	17.0	33.2	58.1	.3
2352	HATS AND CAPS, EXCEPT MILLINERY	3.9	1.2	2.7	51.7	47.6	96	94	11.3	55.6	100.2	171.0	1.9
236	CHILDREN'S OUTERWEAR	14.4	2.5	12.0	245.7	239.5	(NA)	(NA)	74.8	367.5	709.1	1 421.9	19.8
2361	CHILDREN'S DRESSES AND BLOUSES	6.4	1.2	5.2	106.5	94.9	89	87	35.4	174.4	335.8	655.2	12.9
2363	CHILDREN'S COATS AND SUITS	1.3	.2	1.1	20.7	17.1	87	78	9.2	48.5	90.4	188.5	.8
2369	CHILDREN'S OUTERWEAR, NEC	6.7	1.1	5.6	118.5	127.5	84	77	30.1	144.6	282.9	578.2	6.1
2371	FUR GOODS	.5	.2	.3	46.5	41.3	100	99	4.7	41.2	86.2	220.0	1.1
238	MISC. APPAREL AND ACCESSORIES	20.7	5.2	15.5	274.7	242.9	(NA)	(NA)	61.9	334.6	635.9	1 280.0	14.9
2381	FABRIC DRESS AND WORK GLOVES	3.5	.4	3.1	42.1	39.1	91	84	11.9	56.3	100.3	198.8	1.9
2384	ROBES AND DRESSING GOWNS	3.3	.9	2.5	44.1	38.0	89	93	10.0	50.0	92.5	202.8	2.0
2385	WATERPROOF OUTERGARMENTS	5.6	2.1	3.5	59.6	52.6	91	90	15.4	86.4	168.8	332.1	2.4
2386	LEATHER AND SHEEP LINED CLOTHING	1.6	.6	.9	32.3	25.8	97	91	7.0	40.8	82.1	172.1	2.5
2387	APPAREL BELTS	2.5	.3	2.2	50.9	43.9	88	96	10.3	65.9	132.5	257.5	3.2
2389	APPAREL AND ACCESSORIES, NEC	4.2	1.0	3.2	45.7	43.4	90	95	7.3	35.3	59.7	116.8	2.8
239	MISC. FABRICATED TEXTILE PRODS	116.4	23.7	92.7	1 157.4	1 090.0	(NA)	(NA)	186.2	1 139.1	2 188.2	5 099.5	90.4
2391	CURTAINS AND DRAPERIES	7.2	1.6	5.6	151.2	140.5	95	93	33.9	167.1	302.3	754.9	9.5
2392	HOUSEFURNISHINGS, NEC	26.9	6.3	20.6	393.0	345.7	89	61	50.3	281.9	585.2	1 526.9	29.9
2393	TEXTILE BAGS	5.8	1.4	4.4	59.4	57.6	82	84	7.9	44.0	74.5	255.1	5.5
2394	CANVAS AND RELATED PRODUCTS	8.4	2.2	6.2	101.0	91.5	93	92	12.9	75.9	130.3	276.4	4.0
2395	PLEATING AND STITCHING	9.3	1.8	7.5	82.9	75.5	96	98	16.7	89.2	174.7	308.2	3.2
2396	AUTOMOTIVE AND APPAREL TRIMMINGS	36.1	6.4	29.6	194.3	214.7	98	96	27.6	266.6	530.8	1 133.0	10.4
2397	SCHIFFLI MACHINE EMBROIDERIES	3.3	.4	2.9	10.1	8.9	97	98	5.5	38.9	75.0	120.5	2.2
2399	FABRICATED TEXTILE PRODUCTS, NEC	19.4	3.7	15.7	165.4	155.6	94	89	31.4	175.3	315.5	724.7	25.9
24	LUMBER AND WOOD PRODUCTS	1 562.6	290.9	1 271.6	4 663.8	4 258.1	(NA)	(NA)	691.0	4 985.6	10 310.2	23 829.7	931.2
2411	LOGGING CAMPS, LOG CONTRACTORS	386.5	56.3	330.2	555.8	520.6	97	94	80.0	523.9	1 163.4	2 529.5	157.0
242	SAWMILLS AND PLANING MILLS	584.2	100.0	484.2	1 598.8	1 493.2	(NA)	(NA)	204.4	1 488.4	3 259.3	7 244.3	329.3
2421	SAWMILLS, PLANING MILLS, GENERAL	535.8	86.8	449.0	1 420.6	1 333.7	92	93	166.6	1 272.2	2 906.0	6 470.8	306.8
2426	HARDWOOD DIMENSION AND FLOORING	35.3	9.3	26.0	147.4	125.3	91	92	31.5	173.9	272.1	579.0	16.8
2429	SPECIAL PRODUCT SAWMILLS, NEC	13.1	3.9	9.2	30.8	34.2	98	92	6.4	40.0	80.4	180.8	5.7
243	MILLWORK, PLYWOOD, STRUC. MEMBS.	272.7	58.5	214.2	1 344.9	1 208.3	(NA)	(NA)	190.7	1 474.3	2 908.4	6 703.3	194.8
2431	MILLWORK	81.0	27.6	53.3	605.0	545.3	94	94	70.5	524.5	962.7	2 426.8	57.2
2434	WOOD KITCHEN CABINETS	36.7	11.3	25.5	212.3	187.2	96	96	38.8	286.6	486.7	897.2	28.3
2435	HARDWOOD VENEER AND PLYWOOD	29.6	3.7	25.9	197.7	176.1	91	93	25.1	165.2	340.8	911.8	32.1
2436	SOFTWOOD VENEER AND PLYWOOD	105.6	10.6	95.1	242.6	229.2	88	91	43.7	403.6	935.4	2 011.5	65.4
2439	STRUCTURAL WOOD MEMBERS, NEC	19.7	5.4	14.4	87.3	70.5	94	93	12.6	94.4	182.8	456.0	11.8
244	WOOD CONTAINERS	29.6	6.3	23.3	139.9	134.4	(NA)	(NA)	36.8	203.8	358.8	773.5	21.2
2441	NAILED WOOD BOXES AND SHOOK	5.4	1.3	4.1	31.2	30.2	89	83	10.7	61.1	103.8	237.9	6.4
2448	WOOD PALLETS AND SKIDS	21.3	4.4	17.0	58.1	52.4	90	91	14.3	77.7	140.9	295.4	11.2
2449	WOOD CONTAINERS, NEC	2.9	.6	2.3	50.5	51.8	93	97	11.9	65.0	114.1	240.2	3.6
245	WOOD BUILDINGS AND MOBILE HOMES	110.0	43.0	66.9	422.4	350.0	(NA)	(NA)	97.1	745.4	1 490.9	4 289.0	93.0

See footnotes at end of table.

Table 3. Selected Statistics by Major Industry Group and Industry: 1977 and 1972—Con.

Code	Industry group and industry	1977								
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
2451	MOBILE HOMES	508	597	465	50.5	527.6	41.8	80.5	371.8	1 030.5	3 199.3
2452	PREFABRICATED WOOD BUILDINGS	512	568	287	29.0	330.6	21.2	40.6	204.4	758.6	1 948.6
249	MISCELLANEOUS WOOD PRODUCTS	3 292	3 570	905	83.4	813.3	68.8	132.8	581.2	1 799.9	3 973.1
2491	WOOD PRESERVING	366	457	192	12.6	126.1	9.9	19.7	82.9	327.1	962.6
2492	PARTICLEBOARD	36	63	51	6.2	79.1	5.0	10.9	60.3	207.2	452.9
2499	WOOD PRODUCTS, NEC	2 909	3 050	662	64.6	608.1	53.9	102.3	438.0	1 265.5	2 557.6
25	FURNITURE AND FIXTURES	9 421	10 235	3 588	463.8	4 448.3	383.6	736.4	3 191.8	8 921.7	16 978.0
251	HOUSEHOLD FURNITURE	5 585	6 161	2 224	309.7	2 669.2	265.2	505.3	1 998.7	5 212.7	10 392.1
2511	WOOD HOUSEHOLD FURNITURE	2 795	2 983	816	141.0	1 138.8	124.8	245.0	898.7	2 239.9	4 148.8
2512	UPHOLSTERED HOUSEHOLD FURNITURE	1 357	1 473	730	89.1	779.2	75.7	137.6	583.9	1 437.3	2 931.0
2514	METAL HOUSEHOLD FURNITURE	405	448	213	33.2	302.7	27.4	51.6	208.6	637.4	1 307.1
2515	MATTRESSES AND BEDSPRINGS	832	962	355	27.0	279.8	20.6	39.3	175.3	616.6	1 398.5
2517	WOOD TV AND RADIO CABINETS	91	94	51	10.7	89.0	9.3	17.6	70.5	150.4	304.8
2519	HOUSEHOLD FURNITURE, NEC	198	201	59	8.7	79.7	7.5	14.3	61.7	131.0	301.9
252	OFFICE FURNITURE	483	523	233	45.0	542.6	35.1	69.1	375.9	1 236.1	2 009.4
2521	WOOD OFFICE FURNITURE	319	331	119	16.0	165.0	12.8	25.5	110.2	381.3	612.0
2522	METAL OFFICE FURNITURE	167	192	114	29.0	377.6	22.3	43.6	265.7	854.8	1 397.4
2531	PUBLIC BLDG., RELATED FURNITURE	401	420	185	20.0	214.3	15.0	29.2	132.9	414.9	787.4
254	PARTITIONS AND FIXTURES	2 067	2 134	666	57.4	675.1	44.3	85.9	454.2	1 311.0	2 408.8
2541	WOOD PARTITIONS AND FIXTURES	1 572	1 598	394	29.4	352.9	23.0	45.3	241.0	621.4	1 105.8
2542	METAL PARTITIONS AND FIXTURES	508	536	272	28.0	322.2	21.3	40.5	213.2	689.7	1 303.0
259	MISC. FURNITURE AND FIXTURES	964	997	280	31.7	347.0	24.0	46.9	230.1	746.9	1 380.3
2591	DRAPERY HARDWARE, BLINDS, SHADES	435	456	85	13.6	145.6	10.3	20.0	99.1	345.0	675.1
2599	FURNITURE AND FIXTURES, NEC	528	541	195	18.1	201.4	13.7	27.0	131.0	401.9	705.2
26	PAPER AND ALLIED PRODUCTS	4 394	6 545	3 999	628.7	8 942.9	486.3	985.9	6 323.1	22 170.9	52 085.7
2611	PULPMILLS	26	45	42	16.2	293.2	12.5	25.4	220.7	906.1	2 091.1
2621	PAPERMILLS, EXCEPT BUILDING PAPER	171	339	287	127.0	2 167.0	100.4	210.4	1 631.7	5 406.6	12 613.3
2631	PAPERBOARD MILLS	120	249	232	67.6	1 175.8	53.0	112.5	888.0	3 080.7	7 124.3
264	MISC. CONVERTED PAPER PRODUCTS	2 323	2 994	1 435	206.7	2 608.1	158.0	316.1	1 771.3	7 263.0	16 433.2
2641	PAPER COATING AND GLAZING	454	529	239	39.7	551.2	27.2	56.8	335.1	1 507.0	3 392.0
2642	ENVELOPES	182	265	184	22.6	270.0	17.6	34.6	182.4	503.4	990.5
2643	BAGS, EXCEPT TEXTILE BAGS	462	596	355	48.7	584.1	38.8	77.6	411.7	1 349.6	3 482.3
2645	DIE-CUT PAPER AND BOARD	316	371	141	14.3	174.6	11.3	22.7	119.6	429.5	1 057.7
2646	PRESSED AND MOLDED PULP GOODS	25	38	27	4.9	58.8	4.0	8.4	48.7	153.7	240.3
2647	SANITARY PAPER PRODUCTS	72	120	89	34.5	509.1	27.4	54.5	381.8	2 194.5	4 921.2
2648	STATIONERY PRODUCTS	219	242	109	12.6	135.2	9.8	18.5	91.0	291.0	651.7
2649	CONVERTED PAPER PRODUCTS, NEC	783	833	291	29.4	325.1	21.9	43.3	201.1	834.3	1 697.5
265	PAPERBOARD CONTAINERS AND BOXES	1 794	2 860	1 950	204.1	2 601.8	156.5	309.0	1 733.4	5 296.3	13 350.1
2651	FOLDING PAPERBOARD BOXES	452	574	374	44.7	577.8	35.8	71.8	409.8	1 136.8	2 579.0
2652	SETUP PAPERBOARD BOXES	280	312	209	13.1	115.3	11.2	20.6	80.8	211.6	360.5
2653	CORRUGATED AND SOLID FIBER BOXES	863	1 472	1 034	101.5	1 374.8	73.5	146.5	867.0	2 704.1	7 351.1
2654	SANITARY FOOD CONTAINERS	122	193	138	28.7	336.7	22.7	43.5	228.2	836.8	2 048.4
2655	FIBER CANS, DRUMS, SIMILAR PRODS	166	309	195	16.1	197.3	13.4	26.7	147.6	406.9	1 011.1
2661	BUILDING PAPER AND BOARD MILLS	19	58	53	7.0	96.9	5.9	12.5	77.9	218.2	473.7
27	PRINTING AND PUBLISHING	46 604	49 767	9 132	1 092.2	14 024.5	625.8	1 152.8	7 322.1	31 979.5	49 716.2
2711	NEWSPAPERS	7 821	8 867	2 147	349.9	4 306.0	147.2	252.5	1 805.3	9 519.1	13 055.9
2721	PERIODICALS	2 860	2 994	525	69.9	1 019.8	10.6	20.5	115.7	3 762.7	6 056.5
273	BOOKS	2 536	2 694	716	106.4	1 378.5	50.9	97.5	544.2	4 291.1	6 485.7
2731	BOOK PUBLISHING	1 650	1 744	346	59.5	830.2	13.3	24.9	140.1	3 261.9	4 793.9
2732	BOOK PRINTING	897	950	370	46.9	548.2	37.6	72.6	404.1	1 029.2	1 691.8
2741	MISCELLANEOUS PUBLISHING	2 266	2 352	335	42.1	503.0	15.4	27.1	150.3	1 290.7	1 850.9
275	COMMERCIAL PRINTING	26 109	26 815	3 637	356.0	4 701.8	275.1	511.3	3 275.3	8 551.2	15 015.8
2751	COMMERCIAL PRINTING, LETTERPRESS	14 375	14 521	1 059	110.9	1 307.3	88.0	159.6	913.6	2 440.6	4 284.3
2752	COMMERCIAL PRINTING, LITHOGRAPHIC	10 964	11 320	2 362	216.3	2 984.1	163.7	307.4	2 045.7	5 338.4	9 359.7
2753	ENGRAVING AND PLATE PRINTING	511	550	118	9.8	118.9	7.6	13.5	84.5	230.8	314.9
2754	COMMERCIAL PRINTING, GRAVURE	401	424	98	19.0	291.6	15.8	30.8	231.5	541.4	1 056.8
2761	MANIFOLD BUSINESS FORMS	601	795	477	45.3	575.0	33.3	67.3	390.9	1 491.6	2 893.8
2771	GREETING CARD PUBLISHING	155	166	52	18.1	226.8	10.6	21.7	105.8	655.9	1 072.1
278	BLANKBOOKS AND BOOKBINDING	1 343	1 492	576	55.9	579.1	46.1	88.6	418.6	1 148.7	1 656.2
2782	BLANKBOOKS AND LOOSELEAF BINDERS	371	505	288	31.8	338.5	25.2	49.8	235.0	739.9	1 122.6
2789	BOOKBINDING AND RELATED WORK	974	987	288	24.1	240.6	20.9	38.8	183.6	408.8	533.6
279	PRINTING TRADE SERVICES	3 492	3 592	667	48.4	734.6	36.4	66.5	516.0	1 268.4	1 629.4
2791	TYPESETTING	2 370	2 406	389	27.2	364.7	21.7	38.8	271.6	623.4	730.6
2793	PHOTOENGRAVING	440	449	56	5.7	89.3	3.8	6.8	58.4	168.2	218.0
2794	ELECTROTYPING AND STEREOTYPING	40	40	5	.4	6.8	.3	.5	4.6	10.0	13.8
2795	LITHOGRAPHIC PLATEMAKING SERVICES	677	697	217	15.2	273.9	10.6	20.4	181.5	466.8	667.0
28	CHEMICALS AND ALLIED PRODUCTS	8 510	12 173	4 602	880.2	13 839.3	543.6	1 089.7	7 446.2	56 720.6	118 153.6
281	INDUSTRIAL INORGANIC CHEMICALS	550	1 282	490	110.0	1 847.2	67.8	138.6	1 033.4	6 487.2	12 845.0
2812	ALKALIES AND CHLORINE	30	49	33	11.8	215.9	8.0	16.0	136.2	822.5	1 654.8
2813	INDUSTRIAL GASES	109	562	102	7.5	117.2	4.6	9.6	67.0	732.8	1 234.6
2816	INORGANIC PIGMENTS	71	106	66	11.9	179.8	8.0	16.4	110.2	567.9	1 259.9

See footnotes at end of table.

Table 3. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**–Con.

Code	Industry group and industry	1977--Continued							1972				
		New capital expenditures[4]			Inventories		Ratios		All employees				
		Total (million dollars)	Structures and additions to plant (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Specialization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
2451	MOBILE HOMES	69.8	27.1	42.7	193.3	165.5	99	99	71.9	547.3	1 033.9	3 242.9	63.4
2452	PREFABRICATED WOOD BUILDINGS	40.2	15.9	24.3	229.1	184.5	98	98	25.2	198.1	457.1	1 046.1	29.6
249	MISCELLANEOUS WOOD PRODUCTS	179.7	26.8	152.9	602.1	551.6	(NA)	(NA)	82.0	549.9	1 129.4	2 290.1	135.7
2491	WOOD PRESERVING	30.3	3.3	27.0	212.5	184.5	97	97	11.3	74.5	175.8	475.8	14.8
2492	PARTICLEBOARD	32.5	3.2	29.3	21.1	21.7	99	95	7.7	65.5	144.5	295.4	34.6
2499	WOOD PRODUCTS, NEC	116.9	20.3	96.5	368.5	345.4	94	93	63.0	410.0	809.1	1 518.9	86.3
25	FURNITURE AND FIXTURES	388.7	119.2	269.4	2 750.3	2 504.7	(NA)	(NA)	462.0	3 205.4	6 097.1	11 320.3	306.2
251	HOUSEHOLD FURNITURE	211.2	60.1	151.1	1 637.3	1 515.4	(NA)	(NA)	317.4	2 023.7	3 860.5	7 409.6	202.6
2511	WOOD HOUSEHOLD FURNITURE	101.9	26.8	75.2	821.5	771.6	94	96	133.8	806.8	1 556.9	2 870.0	93.8
2512	UPHOLSTERED HOUSEHOLD FURNITURE	50.4	16.6	33.9	378.6	341.2	91	96	92.0	605.3	1 104.0	2 104.7	54.7
2514	METAL HOUSEHOLD FURNITURE	22.8	4.7	18.1	217.0	197.9	89	91	34.4	222.5	447.2	890.4	16.9
2515	MATTRESSES AND BEDSPRINGS	14.5	3.7	10.8	155.6	142.7	95	86	31.4	233.7	479.9	1 041.7	20.7
2517	WOOD TV AND RADIO CABINETS	11.1	5.1	6.0	30.5	31.6	92	90	18.9	111.2	176.9	330.2	9.5
2519	HOUSEHOLD FURNITURE, NEC	10.4	3.3	7.1	34.1	30.5	79	84	6.9	44.2	95.6	172.6	7.0
252	OFFICE FURNITURE	67.6	23.8	43.8	344.4	299.6	(NA)	(NA)	39.3	330.0	659.9	1 111.2	31.8
2521	WOOD OFFICE FURNITURE	26.5	12.4	14.1	107.1	88.4	85	90	11.5	80.1	146.7	249.7	7.3
2522	METAL OFFICE FURNITURE	41.1	11.4	29.7	237.2	211.1	94	92	27.8	249.9	513.2	861.5	24.5
2531	PUBLIC BLDG., RELATED FURNITURE	22.3	6.8	15.5	138.3	122.0	88	87	-	-	-	-	-
254	PARTITIONS AND FIXTURES	58.9	19.4	39.5	394.7	351.2	(NA)	(NA)	57.4	483.9	871.0	1 527.7	34.0
2541	WOOD PARTITIONS AND FIXTURES	22.4	7.4	15.0	158.2	141.8	92	88	31.2	268.2	458.6	793.2	14.6
2542	METAL PARTITIONS AND FIXTURES	36.5	12.0	24.5	236.5	209.4	89	91	26.2	215.7	412.4	734.5	19.4
259	MISC. FURNITURE AND FIXTURES	28.7	9.2	19.5	235.7	216.5	(NA)	(NA)	26.5	209.9	409.9	736.5	24.7
2591	DRAPERY HARDWARE, BLINDS, SHADES	16.7	5.8	10.9	115.6	106.4	95	96	12.1	94.4	198.2	364.5	9.9
2599	FURNITURE AND FIXTURES, NEC	12.0	3.3	8.6	120.1	110.1	87	82	14.5	115.5	211.7	372.0	14.8
26	PAPER AND ALLIED PRODUCTS	3 295.0	326.0	2 969.0	5 641.5	5 281.0	(NA)	(NA)	633.4	5 992.1	13 064.1	28 261.9	1 335.3
2611	PULPMILLS	301.1	13.0	288.0	257.0	223.6	86	72	10.6	125.7	306.9	709.9	136.4
2621	PAPERMILLS, EXCEPT BUILDING PAPER	1 115.2	70.3	1 044.8	1 259.5	1 209.8	92	92	129.9	1 439.6	2 909.3	6 385.2	372.3
2631	PAPERBOARD MILLS	933.7	71.4	862.3	537.5	509.1	84	92	68.5	778.2	1 994.4	4 153.5	313.5
264	MISC. CONVERTED PAPER PRODUCTS	507.4	95.2	412.2	1 943.0	1 746.3	(NA)	(NA)	189.1	1 630.0	4 008.2	8 452.4	288.6
2641	PAPER COATING AND GLAZING	98.7	15.2	83.5	451.2	420.5	80	87	37.2	366.6	984.4	1 954.0	52.3
2642	ENVELOPES	22.9	3.5	19.4	122.2	109.9	97	93	22.9	194.6	347.1	620.8	17.4
2643	BAGS, EXCEPT TEXTILE BAGS	93.4	19.4	74.0	424.9	410.8	88	90	48.6	385.5	840.5	1 885.7	53.9
2645	DIE-CUT PAPER AND BOARD	15.3	2.8	12.5	114.3	94.0	88	84	15.2	132.5	301.6	676.3	10.6
2646	PRESSED AND MOLDED PULP GOODS	10.9	1.0	9.9	24.5	22.0	98	99	6.1	51.8	100.6	162.8	7.0
2647	SANITARY PAPER PRODUCTS	199.1	39.0	160.1	409.9	333.8	93	99	26.3	256.1	882.8	2 071.8	119.6
2648	STATIONERY PRODUCTS	15.9	4.1	11.8	118.2	114.4	86	80	14.7	106.3	225.6	450.5	9.3
2649	CONVERTED PAPER PRODUCTS, NEC	51.1	10.1	41.0	277.7	241.0	88	81	18.1	136.6	325.6	630.6	18.5
265	PAPERBOARD CONTAINERS AND BOXES	421.0	73.8	347.2	1 599.4	1 549.0	(NA)	(NA)	223.7	1 907.0	3 598.8	8 104.7	205.5
2651	FOLDING PAPERBOARD BOXES	89.8	14.2	75.5	421.8	402.2	87	91	45.3	398.1	739.7	1 487.0	37.4
2652	SETUP PAPERBOARD BOXES	8.8	2.0	6.8	48.2	46.4	93	87	18.1	111.6	195.9	321.3	6.4
2653	CORRUGATED AND SOLID FIBER BOXES	243.3	43.1	200.1	664.8	668.4	99	99	107.9	976.3	1 736.9	4 308.8	101.5
2654	SANITARY FOOD CONTAINERS	52.4	10.2	42.2	345.5	320.9	87	86	35.1	277.7	659.8	1 419.7	42.3
2655	FIBER CANS, DRUMS, SIMILAR PRODS	26.7	4.3	22.4	119.2	111.1	93	89	17.3	143.3	266.4	568.0	17.9
2661	BUILDING PAPER AND BOARD MILLS	16.6	2.2	14.4	45.0	43.1	93	83	11.6	111.6	246.5	456.2	18.8
27	PRINTING AND PUBLISHING	1 597.8	310.5	1 287.2	4 200.6	3 943.0	(NA)	(NA)	1 056.5	9 831.2	20 209.5	30 146.4	1 047.7
2711	NEWSPAPERS	478.1	93.5	384.6	382.1	371.8	96	100	348.5	3 168.1	6 219.9	8 262.8	359.5
2721	PERIODICALS	78.9	22.4	56.5	349.6	314.7	90	96	66.5	708.5	2 109.9	3 510.6	56.8
273	BOOKS	134.1	25.4	108.8	1 186.0	1 153.7	(NA)	(NA)	98.1	918.9	2 540.3	3 794.5	82.3
2731	BOOK PUBLISHING	79.8	16.3	63.5	992.0	963.4	94	88	57.1	557.7	1 935.8	2 856.8	48.4
2732	BOOK PRINTING	54.3	9.1	45.3	194.0	190.3	65	76	40.9	361.2	604.5	937.7	33.9
2741	MISCELLANEOUS PUBLISHING	39.1	14.1	25.0	139.1	121.7	95	89	38.8	331.2	775.8	1 070.2	22.7
275	COMMERCIAL PRINTING	639.5	114.9	524.6	1 359.8	1 200.1	(NA)	(NA)	344.2	3 277.4	5 695.0	9 329.7	377.8
2751	COMMERCIAL PRINTING, LETTERPRESS	163.0	32.0	131.0	372.7	345.8	89	81	130.1	1 131.7	2 003.0	3 291.8	129.2
2752	COMMERCIAL PRINTING, LITHOGRAPHIC	360.2	56.9	303.3	861.9	747.1	87	88	184.0	1 835.3	3 155.1	5 124.8	220.6
2753	ENGRAVING AND PLATE PRINTING	17.8	3.5	14.3	23.5	20.6	88	92	9.6	80.7	152.4	201.6	5.1
2754	COMMERCIAL PRINTING, GRAVURE	98.5	22.5	76.0	101.7	86.7	91	83	20.0	225.4	372.2	697.6	22.5
2761	MANIFOLD BUSINESS FORMS	82.1	12.5	69.6	336.7	313.7	93	95	38.6	343.6	823.6	1 429.7	45.8
2771	GREETING CARD PUBLISHING	18.8	5.8	13.0	160.6	207.8	78	95	23.5	191.5	527.0	774.4	46.4
278	BLANKBOOKS AND BOOKBINDING	55.3	11.1	44.2	175.9	155.1	(NA)	(NA)	51.7	371.6	686.8	968.2	25.6
2782	BLANKBOOKS AND LOOSELEAF BINDERS	36.0	9.0	27.1	130.2	112.0	86	91	26.6	192.7	390.6	591.1	14.4
2789	BOOKBINDING AND RELATED WORK	19.3	2.2	17.1	45.7	43.1	96	94	25.1	178.9	296.2	377.2	11.2
279	PRINTING TRADE SERVICES	71.7	10.7	61.1	110.8	104.5	(NA)	(NA)	46.6	520.5	831.3	1 006.3	30.6
2791	TYPESETTING	36.7	5.9	30.8	42.5	38.5	97	89	26.0	269.8	426.0	482.8	14.2
2793	PHOTOENGRAVING	7.5	1.2	6.3	13.2	11.6	83	79	9.9	119.3	191.7	229.7	5.4
2794	ELECTROTYPING AND STEREOTYPING	.1	(Z)	.1	.5	.5	79	66	1.7	19.0	28.5	36.8	.5
2795	LITHOGRAPHIC PLATEMAKING SERVICES	27.4	3.5	23.9	54.5	53.8	87	89	8.9	112.4	185.1	257.0	10.5
28	CHEMICALS AND ALLIED PRODUCTS	8 198.9	1 246.3	6 952.6	14 791.3	13 447.5	(NA)	(NA)	836.5	8 730.5	32 413.9	57 349.6	2 728.4
281	INDUSTRIAL INORGANIC CHEMICALS	1 055.5	138.8	916.6	1 305.7	1 161.2	(NA)	(NA)	99.5	1 078.5	3 343.1	6 132.7	333.4
2812	ALKALIES AND CHLORINE	220.0	22.2	197.7	141.8	132.4	63	58	13.3	152.0	455.6	823.2	61.5
2813	INDUSTRIAL GASES	243.0	23.2	219.8	45.6	27.8	97	93	9.6	87.2	466.7	679.3	84.1
2816	INORGANIC PIGMENTS	124.3	11.7	112.5	251.5	240.7	88	84	12.8	134.6	382.6	796.9	38.9

See footnotes at end of table.

Table 3. Selected Statistics by Major Industry Group and Industry: 1977 and 1972—Con.

Code	Industry group and industry	1977								
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
2819	INDUSTRIAL INORGANIC CHEM., NEC. . .	345	565	289	78.8	1 334.2	47.3	96.7	720.1	4 363.9	8 695.7
282	PLASTICS MATERIALS, SYNTHETICS . .	373	551	408	157.2	2 470.7	111.3	221.7	1 558.0	7 842.9	20 064.1
2821	PLASTICS MATERIALS AND RESINS. . . .	221	397	310	57.2	985.6	36.7	76.6	575.7	4 142.7	10 818.2
2822	SYNTHETIC RUBBER	56	63	30	10.0	185.2	7.1	14.2	125.7	568.6	1 863.3
2823	CELLULOSIC MANMADE FIBERS.	20	25	10	16.0	213.7	12.6	25.2	151.8	327.2	1 002.8
2824	ORGANIC FIBERS, NONCELLULOSIC. . . .	37	66	58	74.0	1 086.1	54.8	105.8	704.8	2 804.4	6 379.7
283	DRUGS.	1 020	1 243	482	156.4	2 459.6	80.3	157.5	997.2	9 939.9	14 247.8
2831	BIOLOGICAL PRODUCTS.	250	310	113	15.7	210.2	8.8	17.3	90.5	563.4	898.5
2833	MEDICINALS AND BOTANICALS.	153	177	76	14.4	219.9	8.4	17.1	127.2	1 162.2	1 889.9
2834	PHARMACEUTICAL PREPARATIONS.	655	756	293	126.4	2 029.5	63.1	123.1	779.4	8 214.4	11 459.4
284	SOAPS, CLEANERS, TOILET GOODS. . .	2 252	2 528	739	111.6	1 526.1	71.1	138.9	822.8	9 407.2	16 330.7
2841	SOAP AND OTHER DETERGENTS.	554	638	225	32.1	521.6	20.5	41.0	308.1	2 867.5	5 671.4
2842	POLISHES AND SANITATION GOODS. . . .	946	1 022	238	22.1	274.7	14.1	27.2	148.5	1 667.2	3 157.3
2843	SURFACE ACTIVE AGENTS.	148	175	84	6.6	101.9	3.7	7.7	47.3	345.7	944.8
2844	TOILET PREPARATIONS.	644	693	192	50.9	627.9	32.8	62.9	318.9	4 526.7	6 557.2
2851	PAINTS AND ALLIED PRODUCTS	1 288	1 579	653	61.4	882.6	33.0	66.2	394.1	2 821.3	6 629.7
286	INDUSTRIAL ORGANIC CHEMICALS . . .	574	879	510	152.8	2 794.2	97.8	200.1	1 625.3	12 875.1	30 261.1
2861	GUM AND WOOD CHEMICALS	100	119	37	4.8	54.0	3.8	7.8	38.9	185.0	391.3
2865	CYCLIC CRUDES AND INTERMEDIATES. . .	135	191	127	35.7	631.5	23.4	46.6	369.8	2 214.4	5 637.0
2869	INDUSTRIAL ORGANIC CHEMICALS, NEC. .	384	569	346	112.3	2 108.7	70.7	145.7	1 216.5	10 475.7	24 232.8
287	AGRICULTURAL CHEMICALS	885	1 325	482	53.9	784.0	35.3	72.8	454.8	3 807.9	9 932.2
2873	NITROGENOUS FERTILIZERS.	110	152	88	12.1	207.9	7.9	17.1	128.4	1 202.0	2 603.4
2874	PHOSPHATIC FERTILIZERS	45	91	59	14.4	212.8	10.1	21.7	139.2	817.7	2 681.7
2875	FERTILIZERS, MIXING ONLY	457	673	204	12.4	139.1	8.1	16.0	68.9	488.9	1 866.6
2879	AGRICULTURAL CHEMICALS, NEC.	338	409	121	15.0	224.1	9.3	17.9	118.2	1 299.3	2 780.4
289	MISCELLANEOUS CHEMICAL PRODUCTS. .	2 146	2 786	838	76.9	1 075.0	47.1	94.2	560.9	3 539.0	7 843.2
2891	ADHESIVES AND SEALANTS	405	573	213	16.7	230.7	10.2	20.6	113.5	748.7	1 813.1
2892	EXPLOSIVES	63	97	53	12.3	173.2	8.4	16.1	101.4	410.7	666.3
2893	PRINTING INK	205	446	157	10.1	145.1	5.8	11.4	71.6	367.8	944.9
2895	CARBON BLACK	8	31	31	2.5	42.5	2.0	4.6	32.5	170.2	468.4
2899	CHEMICAL PREPARATIONS, NEC	1 479	1 639	384	35.3	483.4	20.7	41.5	242.0	1 841.7	3 950.6
29	PETROLEUM AND COAL PRODUCTS. . .	1 361	2 206	773	146.8	2 696.2	101.1	207.9	1 765.4	16 377.6	97 452.7
2911	PETROLEUM REFINING	192	349	279	102.5	2 055.3	70.8	144.4	1 366.4	14 423.9	91 688.8
295	PAVING AND ROOFING MATERIALS . . .	729	1 297	328	32.3	461.3	23.9	51.0	319.4	1 272.0	3 655.9
2951	PAVING MIXTURES AND BLOCKS	590	1 022	164	12.8	189.6	9.6	20.1	133.6	507.8	1 578.3
2952	ASPHALT FELTS AND COATINGS	146	275	164	19.5	271.7	14.3	31.0	185.9	764.2	2 077.6
299	MISC. PETROLEUM, COAL PRODUCTS . .	472	560	166	11.9	179.6	6.4	12.5	79.6	681.7	2 108.0
2992	LUBRICATING OILS AND GREASES	417	490	143	10.3	157.1	5.4	10.4	65.4	524.8	1 644.7
2999	PETROLEUM AND COAL PRODUCTS, NEC . .	60	70	23	1.6	22.5	1.1	2.1	14.2	157.0	463.3
30	RUBBER, MISC. PLASTICS PROD. . .	10 047	11 943	5 294	721.3	8 536.0	563.7	1 110.6	5 841.6	19 740.0	39 552.8
3011	TIRES AND INNER TUBES.	121	200	126	114.0	1 832.4	88.3	176.4	1 366.0	4 347.3	8 971.0
3021	RUBBER AND PLASTICS FOOTWEAR	67	84	50	19.8	159.1	16.4	30.0	115.9	272.3	517.0
3031	RECLAIMED RUBBER	21	21	9	.9	11.5	.7	1.5	8.4	24.8	41.6
3041	RUBBER, PLASTICS HOSE AND BELTING. .	101	146	103	34.4	457.4	23.4	45.3	274.9	973.5	1 765.7
3069	FABRICATED RUBBER PRODUCTS, NEC. . .	1 127	1 280	621	98.5	1 164.0	77.1	153.3	795.4	2 351.9	4 565.0
3079	MISCELLANEOUS PLASTICS PRODUCTS. . .	8 748	10 212	4 385	453.7	4 911.7	358.0	704.1	3 281.0	11 770.1	23 692.6
31	LEATHER AND LEATHER PRODUCTS . .	2 654	3 075	1 486	242.5	1 859.7	211.5	381.9	1 408.1	3 718.8	7 607.4
3111	LEATHER TANNING AND FINISHING. . . .	428	465	191	23.0	254.8	19.6	38.2	192.2	535.1	1 456.1
3131	BOOT, SHOE CUT STOCK AND FINDINGS. .	174	190	96	8.5	65.3	7.4	13.0	48.8	109.4	270.6
314	FOOTWEAR, EXCEPT RUBBER.	541	811	603	145.5	1 031.5	129.2	231.3	822.4	2 069.5	3 891.7
3142	HOUSE SLIPPERS	65	78	55	8.1	54.5	7.0	11.7	39.6	108.8	201.2
3143	MEN'S FOOTWEAR, EXCEPT ATHLETIC. . .	115	213	180	55.0	417.0	49.2	90.1	332.2	871.9	1 734.5
3144	WOMEN'S FOOTWEAR, EXCEPT ATHLETIC. .	243	328	241	57.6	388.6	51.3	91.3	315.6	755.0	1 361.2
3149	FOOTWEAR, EXCEPT RUBBER, NEC	159	192	127	24.8	171.4	21.8	38.2	135.1	333.7	594.8
3151	LEATHER GLOVES AND MITTENS	84	101	66	5.5	33.9	4.7	8.2	25.5	67.6	178.0
3161	LUGGAGE.	286	298	130	19.2	164.1	15.8	29.0	105.5	328.3	654.9
317	WOMEN'S HANDBAGS AND PURSES. . . .	654	678	283	32.1	242.2	27.8	49.9	170.0	472.2	872.0
3171	WOMEN'S HANDBAGS AND PURSES.	404	418	186	20.3	144.0	18.2	32.8	109.1	266.5	505.2
3172	PERSONAL LEATHER GOODS, NEC.	253	260	97	11.9	98.2	9.6	17.2	60.9	205.8	366.8
3199	LEATHER GOODS, NEC	512	532	117	8.6	67.9	7.0	12.4	43.7	136.7	284.2
32	STONE, CLAY, GLASS PRODUCTS. . .	14 495	17 744	5 201	613.7	7 943.1	484.4	960.7	5 766.6	19 129.6	35 476.6
3211	FLAT GLASS	43	62	32	21.9	401.0	18.5	39.9	328.2	931.0	1 576.6
322	GLASS, PRESSED OR BLOWN.	353	508	249	117.0	1 548.2	101.1	194.5	1 268.9	3 592.0	5 784.2
3221	GLASS CONTAINERS	31	126	124	70.8	975.4	62.5	120.1	823.0	2 138.9	3 664.2
3229	PRESSED AND BLOWN GLASS, NEC	325	382	125	46.2	572.8	38.6	74.4	445.9	1 453.1	2 120.1
3231	PRODUCTS OF PURCHASED GLASS.	1 000	1 101	325	36.2	429.2	28.8	56.7	305.9	960.2	1 842.4
3241	CEMENT, HYDRAULIC.	87	201	160	27.8	485.1	22.2	44.4	380.0	1 671.5	3 042.3
325	STRUCTURAL CLAY PRODUCTS	504	711	471	45.0	486.4	36.6	73.3	360.3	1 057.8	1 852.0

See footnotes at end of table.

Table 3. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977--Continued							1972				
		New capital expenditures[4]			Inventories		Ratios		All employees				
		Total (million dollars)	Structures and additions to plant (million Dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Specialization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
2819	INDUSTRIAL INORGANIC CHEM., NEC. . .	468.2	81.7	386.6	866.9	760.3	>87	>77	63.8	704.7	2 038.2	3 833.3	149.0
282	PLASTICS MATERIALS, SYNTHETICS . .	1 316.1	151.9	1 164.3	2 020.5	1 854.1	(NA)	(NA)	161.9	1 666.3	4 935.4	9 796.0	693.9
2821	PLASTICS MATERIALS AND RESINS. . .	895.2	101.2	794.0	1 093.6	982.3	85	74	54.8	632.8	2 160.5	4 478.2	253.2
2822	SYNTHETIC RUBBER	53.2	3.9	49.3	154.3	148.9	91	71	11.8	138.8	491.7	1 089.4	35.5
2823	CELLULOSIC MANMADE FIBERS.	29.3	1.0	28.3	110.8	107.9	(D)	(D)	17.1	135.2	243.5	589.5	32.7
2824	ORGANIC FIBERS, NONCELLULOSIC. . . .	338.5	45.8	292.7	661.8	614.9	84	97	78.2	759.5	2 039.8	3 638.9	372.5
283	DRUGS.	578.5	154.8	423.7	2 446.5	2 231.6	(NA)	(NA)	129.9	1 413.3	6 130.9	8 018.5	245.3
2831	BIOLOGICAL PRODUCTS.	35.4	11.3	24.2	246.9	222.3	93	73	10.1	102.9	231.4	360.0	27.2
2833	MEDICINALS AND BOTANICALS.	123.8	19.8	104.0	307.0	297.9	82	68	7.8	80.8	260.0	509.0	51.5
2834	PHARMACEUTICAL PREPARATIONS. . . .	419.3	123.8	295.5	1 892.6	1 711.5	86	97	112.0	1 229.7	5 639.5	7 149.5	166.7
284	SOAPS, CLEANERS, TOILET GOODS. . .	334.0	65.8	268.2	1 794.9	1 699.8	(NA)	(NA)	111.6	1 058.2	6 200.6	9 777.6	236.1
2841	SOAP AND OTHER DETERGENTS.	135.5	15.9	119.6	643.4	616.7	84	89	31.5	341.6	2 038.8	3 394.4	90.7
2842	POLISHES AND SANITATION GOODS. . .	51.8	12.7	39.2	274.9	264.3	76	79	25.1	216.9	1 118.1	1 867.6	54.3
2843	SURFACE ACTIVE AGENTS.	41.1	8.2	32.8	116.3	106.9	81	55	6.9	71.5	209.5	462.6	19.7
2844	TOILET PREPARATIONS.	105.6	29.0	76.6	760.3	712.0	95	87	48.2	428.2	2 834.1	4 053.0	71.4
2851	PAINTS AND ALLIED PRODUCTS	167.4	52.5	114.9	937.6	864.2	96	97	65.9	647.2	1 791.7	3 821.8	81.5
286	INDUSTRIAL ORGANIC CHEMICALS . . .	3 352.5	511.1	2 841.5	3 852.8	3 439.3	(NA)	(NA)	136.6	1 614.3	6 073.1	11 605.4	831.6
2861	GUM AND WOOD CHEMICALS	27.0	10.8	16.2	65.7	63.6	76	67	5.9	47.6	155.4	332.3	11.1
2865	CYCLIC CRUDES AND INTERMEDIATES. . .	443.1	52.6	390.5	844.4	784.2	68	67	28.2	318.2	929.7	2 049.6	158.8
2869	INDUSTRIAL ORGANIC CHEMICALS, NEC. .	2 882.6	447.7	2 434.9	2 942.7	2 591.5	69	84	102.4	1 248.6	4 988.0	9 223.5	661.7
287	AGRICULTURAL CHEMICALS	1 107.2	99.0	1 008.2	1 564.7	1 394.3	(NA)	(NA)	47.9	438.4	1 736.5	3 929.1	155.8
2873	NITROGENOUS FERTILIZERS.	734.4	34.7	699.6	378.0	296.9	84	72	9.4	104.3	447.6	799.4	33.2
2874	PHOSPHATIC FERTILIZERS	111.8	13.8	97.9	419.7	353.9	93	91	14.9	135.1	426.4	1 178.9	65.8
2875	FERTILIZERS, MIXING ONLY	41.9	9.3	32.6	306.5	303.3	95	98	11.4	82.5	263.6	800.0	17.2
2879	AGRICULTURAL CHEMICALS, NEC. . . .	219.2	41.1	178.0	460.6	440.2	83	77	12.2	116.5	598.9	1 150.8	39.5
289	MISCELLANEOUS CHEMICAL PRODUCTS. .	287.4	72.3	215.2	868.1	802.8	(NA)	(NA)	83.1	814.3	2 202.6	4 268.4	150.8
2891	ADHESIVES AND SEALANTS	39.0	9.4	29.6	202.5	187.3	89	81	14.9	148.2	426.6	928.0	24.9
2892	EXPLOSIVES	26.1	7.3	18.8	59.8	54.8	86	95	18.6	178.9	281.7	402.7	30.1
2893	PRINTING INK	17.0	4.3	12.8	116.7	101.7	97	97	9.6	99.3	232.0	508.4	12.6
2895	CARBON BLACK	22.7	1.5	21.2	32.7	27.3	95	95	2.9	31.9	137.6	227.0	11.8
2899	CHEMICAL PREPARATIONS, NEC	182.6	49.8	132.9	456.5	431.7	87	77	37.1	356.0	1 124.7	2 202.3	71.3
29	PETROLEUM AND COAL PRODUCTS. . .	2 261.3	617.8	1 643.5	5 656.3	4 912.9	(NA)	(NA)	139.5	1 637.5	5 793.1	28 694.7	1 154.2
2911	PETROLEUM REFINING	2 108.6	589.2	1 519.5	5 196.2	4 471.6	99	97	100.8	1 247.1	4 594.7	25 921.1	1 061.6
295	PAVING AND ROOFING MATERIALS . . .	112.5	21.3	91.2	220.0	196.1	(NA)	(NA)	29.5	296.5	846.4	1 932.9	75.9
2951	PAVING MIXTURES AND BLOCKS	57.3	8.4	48.9	62.8	53.5	95	93	13.9	147.7	403.1	922.5	56.3
2952	ASPHALT FELTS AND COATINGS	55.2	13.0	42.2	157.2	142.6	91	97	15.6	148.7	443.3	1 010.4	19.6
299	MISC. PETROLEUM, COAL PRODUCTS . .	40.1	7.2	32.9	240.1	245.2	(NA)	(NA)	9.2	93.9	352.1	840.7	16.7
2992	LUBRICATING OILS AND GREASES . . .	25.6	5.7	19.9	180.8	192.9	94	44	8.1	83.3	295.8	703.1	13.7
2999	PETROLEUM AND COAL PRODUCTS, NEC . .	14.5	1.5	13.0	59.3	52.3	97	87	1.1	10.6	56.3	137.6	3.0
30	RUBBER, MISC. PLASTICS PROD. . .	1 645.3	306.4	1 338.9	4 952.7	4 441.4	(NA)	(NA)	617.7	5 165.2	11 653.3	20 923.7	1 059.6
3011	TIRES AND INNER TUBES.	289.0	38.4	250.6	1 172.1	1 015.0	96	99	107.5	1 214.1	3 070.8	5 747.1	267.1
3021	RUBBER AND PLASTICS FOOTWEAR . . .	11.3	.9	10.4	140.7	129.0	93	99	31.6	182.6	370.3	600.0	17.7
3031	RECLAIMED RUBBER	.5	(Z)	.5	3.7	3.7	100	62	.9	9.1	15.6	29.7	.7
3041	RUBBER, PLASTICS HOSE AND BELTING. .	55.3	15.3	40.1	275.4	267.6	88	92	31.9	309.0	618.7	1 020.1	31.6
3069	FABRICATED RUBBER PRODUCTS, NEC. . .	135.0	28.2	106.9	510.5	476.6	88	90	99.0	808.8	1 573.1	2 830.9	88.5
3079	MISCELLANEOUS PLASTICS PRODUCTS. . .	1 154.2	223.7	930.5	2 850.3	2 549.6	94	91	346.9	2 641.6	6 004.7	10 695.9	654.0
31	LEATHER AND LEATHER PRODUCTS . .	96.2	21.6	74.6	1 098.9	1 033.0	(NA)	(NA)	273.4	1 589.3	2 917.2	5 769.5	74.5
3111	LEATHER TANNING AND FINISHING. . . .	30.7	6.8	23.9	187.6	176.1	99	99	25.7	200.0	368.3	1 059.5	16.3
3131	BOOT, SHOE CUT STOCK AND FINDINGS. .	3.0	.8	2.2	31.2	33.0	90	92	8.7	50.1	86.2	206.5	2.9
314	FOOTWEAR, EXCEPT RUBBER.	37.1	9.0	28.1	558.0	518.8	(NA)	(NA)	176.2	972.7	1 796.1	3 272.2	37.1
3142	HOUSE SLIPPERS	2.3	.7	1.6	29.7	28.9	94	96	8.5	48.1	85.7	151.4	1.6
3143	MEN'S FOOTWEAR, EXCEPT ATHLETIC. . .	14.5	3.4	11.0	272.2	245.6	92	96	61.5	358.1	674.4	1 288.9	14.3
3144	WOMEN'S FOOTWEAR, EXCEPT ATHLETIC. .	9.7	2.1	7.6	147.4	148.3	97	92	77.4	408.4	763.6	1 346.1	14.8
3149	FOOTWEAR, EXCEPT RUBBER, NEC	10.6	2.8	7.8	108.7	96.0	84	83	28.7	158.1	272.5	485.8	6.4
3151	LEATHER GLOVES AND MITTENS	1.9	.3	1.6	33.7	30.9	83	85	4.9	22.1	43.0	98.2	.5
3161	LUGGAGE.	8.1	1.0	7.1	113.5	114.8	94	98	17.1	106.8	194.1	364.5	8.9
317	WOMEN'S HANDBAGS AND PURSES. . . .	11.4	2.4	9.0	124.5	116.2	(NA)	(NA)	33.6	195.1	345.1	607.2	6.5
3171	WOMEN'S HANDBAGS AND PURSES.	6.6	1.7	4.9	61.9	56.1	97	97	22.2	121.7	201.5	365.0	3.7
3172	PERSONAL LEATHER GOODS, NEC.	4.8	.7	4.1	62.5	60.2	96	91	11.5	73.4	143.7	242.2	2.8
3199	LEATHER GOODS, NEC	4.1	1.4	2.7	50.6	43.2	94	95	7.2	42.5	84.3	161.3	2.2
32	STONE, CLAY, GLASS PRODUCTS. . .	1 881.4	337.2	1 544.2	4 279.3	3 995.3	(NA)	(NA)	623.2	5 546.9	12 586.5	21 537.5	1 195.5
3211	FLAT GLASS	81.1	11.8	69.3	211.4	191.9	90	(D)	20.9	241.9	662.1	937.1	95.0
322	GLASS, PRESSED OR BLOWN.	364.5	59.1	305.4	759.4	760.9	(NA)	(NA)	118.8	1 057.5	2 341.1	3 393.8	176.7
3221	GLASS CONTAINERS	220.9	34.3	186.7	408.7	429.6	99	99	72.9	659.4	1 399.7	2 126.5	121.1
3229	PRESSED AND BLOWN GLASS, NEC	143.6	24.9	118.7	350.7	331.2	97	96	45.9	398.1	941.4	1 267.3	55.6
3231	PRODUCTS OF PURCHASED GLASS. . . .	73.4	23.0	50.4	285.6	261.5	95	(D)	33.7	296.1	668.9	1 330.1	34.5
3241	CEMENT, HYDRAULIC.	296.6	41.7	254.9	484.8	463.2	99	99	30.0	349.2	1 153.5	1 791.2	179.5
325	STRUCTURAL CLAY PRODUCTS	82.3	16.7	65.6	299.0	304.5	(NA)	(NA)	51.8	391.4	770.6	1 205.3	64.0

See footnotes at end of table.

Table 3. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977									
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
3251	BRICK AND STRUCTURAL CLAY TILE	250	352	262	20.5	197.3	17.0	34.0	149.2	467.9	777.7
3253	CERAMIC WALL AND FLOOR TILE	62	79	48	7.8	78.3	6.3	12.8	56.4	155.4	252.5
3255	CLAY REFRACTORIES	98	167	104	11.3	146.8	8.8	17.6	106.5	308.4	607.2
3259	STRUCTURAL CLAY PRODUCTS, NEC	94	113	57	5.5	64.0	4.5	8.9	48.2	126.1	214.6
326	POTTERY AND RELATED PRODUCTS	885	934	241	43.2	459.6	35.6	67.8	341.9	893.6	1 260.9
3261	VITREOUS PLUMBING FIXTURES	54	70	38	9.2	117.2	7.8	15.6	96.9	277.3	411.4
3262	VITREOUS CHINA FOOD UTENSILS	26	28	14	7.3	72.3	6.0	11.1	53.6	140.0	170.7
3263	FINE EARTHENWARE FOOD UTENSILS	22	23	17	4.7	38.4	3.5	6.4	27.1	61.2	81.3
3264	PORCELAIN ELECTRICAL SUPPLIES	77	86	56	11.4	144.4	9.1	17.6	98.0	253.9	367.5
3269	POTTERY PRODUCTS, NEC	713	727	116	10.6	87.4	9.2	17.1	66.2	161.2	230.0
327	CONCRETE, GYPSUM, PLASTER PRODS.	8 899	10 844	2 711	183.7	2 366.8	134.4	272.6	1 558.6	5 390.8	11 804.8
3271	CONCRETE BLOCK AND BRICK	1 162	1 273	348	18.7	237.1	11.8	24.1	126.6	520.3	1 143.8
3272	CONCRETE PRODUCTS, NEC	3 475	3 916	862	61.7	734.9	48.1	96.0	494.5	1 529.3	2 736.2
3273	READY-MIXED CONCRETE	4 317	5 433	1 357	87.9	1 175.8	62.0	125.3	766.6	2 693.2	6 440.6
3274	LIME	64	94	63	5.9	75.4	4.8	9.8	59.4	218.2	484.2
3275	GYPSUM PRODUCTS	58	128	81	9.5	143.6	7.6	17.3	111.5	429.6	1 000.0
3281	CUT STONE AND STONE PRODUCTS	963	993	164	12.7	131.5	10.6	21.4	98.8	238.2	393.0
329	MISC. NONMETALLIC MINERAL PRODS.	1 960	2 390	848	126.2	1 635.2	96.6	190.0	1 123.9	4 394.5	7 920.2
3291	ABRASIVE PRODUCTS	353	410	178	28.3	392.3	20.1	38.5	241.2	1 097.7	1 955.8
3292	ASBESTOS PRODUCTS	86	123	76	13.9	179.9	11.0	22.6	137.4	439.3	882.1
3293	GASKETS, PACKING, SEALING DEVICES	384	433	217	33.0	371.3	25.0	47.5	237.3	748.3	1 267.1
3295	MINERALS, GROUND OR TREATED	318	466	151	11.5	156.3	8.9	18.1	111.8	479.4	957.3
3296	MINERAL WOOL	95	153	90	22.6	313.8	18.6	38.3	244.5	1 053.7	1 790.5
3297	NONCLAY REFRACTORIES	74	109	66	9.1	134.3	6.8	13.5	92.5	352.1	680.2
3299	NONMETALLIC MINERAL PRODUCTS, NEC	681	696	70	7.7	87.2	6.2	11.4	59.1	224.1	387.3
33	PRIMARY METAL INDUSTRIES	5 929	7 375	3 980	1 113.6	18 745.0	885.3	1 744.0	14 065.2	37 568.2	103 179.4
331	BLAST FURNACE, BASIC STEEL PROD.	887	1 216	740	529.7	10 085.5	417.9	804.5	7 631.3	18 318.4	50 582.1
3312	BLAST FURNACES AND STEEL MILLS	395	504	250	441.9	8 725.7	350.2	668.7	6 653.0	15 331.9	41 998.2
3313	ELECTROMETALLURGICAL PRODUCTS	28	42	31	8.9	139.2	7.0	14.3	103.9	274.6	930.6
3315	STEEL WIRE AND RELATED PRODUCTS	262	335	223	31.7	436.6	24.3	49.0	304.9	924.4	2 258.6
3316	COLD FINISHING OF STEEL SHAPES	118	155	94	19.4	334.6	14.6	28.7	238.8	799.6	2 713.2
3317	STEEL PIPE AND TUBES	130	180	142	27.8	449.4	21.8	43.7	330.6	987.9	2 681.4
332	IRON AND STEEL FOUNDRIES	1 251	1 465	1 033	222.3	3 329.2	183.8	367.9	2 582.6	6 236.6	10 830.2
3321	GRAY IRON FOUNDRIES	865	984	683	138.8	2 146.0	116.8	236.1	1 703.2	4 070.7	7 388.7
3322	MALLEABLE IRON FOUNDRIES	58	66	53	18.2	273.0	14.6	27.9	202.5	458.8	721.9
3324	STEEL INVESTMENT FOUNDRIES	80	92	68	10.5	128.7	8.1	16.5	85.9	267.4	407.5
3325	STEEL FOUNDRIES, NEC	287	323	229	54.8	781.5	44.2	87.3	591.0	1 439.8	2 312.1
333	PRIMARY NONFERROUS METALS	103	160	99	57.3	1 032.1	44.9	89.1	768.4	3 618.6	10 660.2
3331	PRIMARY COPPER	8	27	27	13.1	217.3	10.6	20.6	167.5	904.3	3 918.1
3332	PRIMARY LEAD	4	7	7	2.5	40.5	2.0	4.1	30.2	189.5	699.6
3333	PRIMARY ZINC	8	9	7	4.6	70.5	3.5	6.9	49.3	114.3	430.7
3334	PRIMARY ALUMINUM	12	32	32	28.6	555.0	22.8	45.5	426.3	1 980.9	4 647.8
3339	PRIMARY NONFERROUS METALS, NEC	81	85	26	8.6	148.8	6.0	12.1	95.1	429.5	963.9
3341	SECONDARY NONFERROUS METALS	393	460	200	18.9	269.8	14.0	28.4	169.7	769.3	3 558.0
335	NONFERROUS ROLLING AND DRAWING	626	1 002	711	177.4	2 640.0	136.0	278.5	1 901.5	5 902.3	22 227.3
3351	COPPER ROLLING AND DRAWING	102	140	99	31.3	455.5	24.2	50.5	338.7	973.7	4 013.8
3353	ALUMINUM SHEET, PLATE, AND FOIL	31	53	45	31.4	613.5	25.0	50.6	480.1	1 340.6	5 970.7
3354	ALUMINUM EXTRUDED PRODUCTS	133	193	146	26.5	355.9	21.2	44.0	264.1	678.6	2 050.0
3355	ALUMINUM ROLLING AND DRAWING, NEC	18	22	15	4.7	78.1	3.6	6.9	56.5	222.8	1 001.0
3356	NONFERROUS ROLLING & DRAWING, NEC	153	173	86	17.2	260.2	12.2	24.7	158.7	569.0	22 596.5
3357	NONFERROUS WIREDRAWING, INSULATING	245	421	320	66.3	876.8	50.0	101.8	603.4	2 117.6	6 595.4
336	NONFERROUS FOUNDRIES	1 806	1 892	805	82.1	1 043.8	68.6	134.1	782.6	1 959.6	3 826.1
3361	ALUMINUM FOUNDRIES	994	1 038	461	52.2	691.4	44.2	86.3	531.0	1 262.7	2 459.1
3362	BRASS, BRONZE, COPPER FOUNDRIES	476	489	180	12.6	148.3	10.2	19.8	106.7	283.0	553.3
3369	NONFERROUS FOUNDRIES, NEC	359	365	164	17.3	204.1	14.2	28.0	144.9	413.9	813.7
339	MISC. PRIMARY METAL PRODUCTS	1 102	1 180	392	26.0	344.5	20.2	41.5	229.2	763.3	1 495.5
3398	METAL HEAT TREATING	682	753	273	16.9	220.1	13.3	27.6	147.9	466.8	744.9
3399	PRIMARY METAL PRODUCTS, NEC	406	427	119	9.0	124.4	6.9	13.9	81.2	296.5	750.6
34	FABRICATED METAL PRODUCTS	29 966	33 712	12 739	1 555.7	21 035.9	1 191.6	2 373.8	14 428.8	45 511.5	90 023.5
341	METAL CANS, SHIPPING CONTAINERS	269	587	413	72.3	1 246.5	60.0	126.5	999.6	3 643.9	9 180.0
3411	METAL CANS	153	403	300	59.8	1 066.3	50.2	106.4	870.8	3 254.3	8 242.8
3412	METAL BARRELS, DRUMS, AND PAILS	120	184	113	12.4	180.3	9.8	20.1	128.8	389.6	937.1
342	CUTLERY, HANDTOOLS AND HARDWARE	1 924	2 137	877	168.6	2 179.3	132.6	264.5	1 553.4	5 176.6	8 556.5
3421	CUTLERY	119	130	62	14.9	159.6	12.1	23.5	118.3	492.0	711.4
3423	HAND AND EDGE TOOLS, NEC	662	724	296	47.0	566.4	36.9	72.8	394.7	1 421.4	2 279.2
3425	HANDSAWS AND SAW BLADES	105	115	55	7.6	94.3	5.7	11.4	62.7	230.6	363.3
3429	HARDWARE, NEC	1 063	1 168	464	99.2	1 359.0	77.9	156.8	977.7	3 032.6	5 202.6
343	PLUMBING, HEATING, EXCEPT ELEC	960	1 015	341	53.2	636.8	40.6	80.4	422.8	1 573.6	3 087.6
3431	METAL SANITARY WARE	96	101	37	8.1	109.7	6.7	14.4	87.5	248.7	477.6
3432	PLUMBING FITTINGS AND BRASS GOODS	191	213	110	19.3	215.0	15.3	30.0	145.0	579.3	1 166.4
3433	HEATING EQUIPMENT, EXC. ELECTRIC	678	701	194	25.8	312.2	18.7	36.0	190.3	745.6	1 443.6
344	FABRICATED STRUC. METAL PRODS.	10 725	11 817	4 279	425.7	5 491.9	308.5	603.3	3 467.2	11 785.3	24 993.8
3441	FABRICATED STRUCTURAL METAL	2 319	2 462	1 074	99.3	1 313.6	72.8	144.2	836.9	2 559.8	5 505.2
3442	METAL DOORS, SASH, AND TRIM	1 498	1 672	644	65.8	671.3	50.1	97.0	425.0	1 418.3	3 135.6
3443	FABRICATED PLATEWORK, BOILER SHOP	1 683	1 864	944	123.5	1 777.8	87.7	171.6	1 125.8	4 075.3	7 432.4
3444	SHEET METALWORK	3 222	3 430	1 008	77.4	980.2	56.7	109.5	636.6	2 095.1	4 863.5
3446	ARCHITECTURAL METALWORK	1 477	1 511	225	20.8	247.7	15.1	29.4	152.3	505.5	947.1
3448	PREFABRICATED METAL BUILDINGS	414	466	199	22.7	289.7	15.9	31.6	174.9	694.5	1 779.2

See footnotes at end of table.

Table 3. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977--Continued							1972			
		New capital expenditures[4]			Inventories		Ratios		All employees				
		Total (million dollars)	Structures and additions to plant (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Specialization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
3251	BRICK AND STRUCTURAL CLAY TILE	49.6	10.2	39.5	93.2	98.3	99	99	24.1	168.4	336.4	513.0	38.6
3253	CERAMIC WALL AND FLOOR TILE	6.6	.7	6.0	42.1	40.3	99	95	8.3	58.5	112.3	175.6	7.6
3255	CLAY REFRACTORIES	20.0	4.4	15.6	126.4	131.4	89	95	11.2	100.5	202.1	336.0	10.8
3259	STRUCTURAL CLAY PRODUCTS, NEC	6.1	1.4	4.6	37.2	34.5	94	92	8.2	64.0	119.8	180.7	7.0
326	POTTERY AND RELATED PRODUCTS	45.2	11.5	33.7	182.0	169.0	(NA)	(NA)	44.9	335.3	600.6	834.8	23.1
3261	VITREOUS PLUMBING FIXTURES	7.3	1.9	5.4	48.9	49.1	92	95	9.6	86.5	186.8	270.0	5.8
3262	VITREOUS CHINA FOOD UTENSILS	5.4	1.6	3.8	30.0	26.2	[6]80	94	5.9	41.2	67.4	81.9	1.8
3263	FINE EARTHENWARE FOOD UTENSILS	1.7	.4	1.3	17.2	14.9	[6]85	76	6.8	41.4	56.2	74.3	3.1
3264	PORCELAIN ELECTRICAL SUPPLIES	20.9	5.3	15.6	59.3	54.3	86	82	13.4	114.0	190.4	274.6	7.2
3269	POTTERY PRODUCTS, NEC	9.8	2.4	7.5	26.7	24.6	95	85	9.1	52.2	99.9	134.0	5.2
327	CONCRETE, GYPSUM, PLASTER PRODS.	604.8	105.8	499.0	864.8	774.7	(NA)	(NA)	193.1	1 741.0	3 839.7	7 746.4	453.1
3271	CONCRETE BLOCK AND BRICK	55.6	9.8	45.9	124.0	118.4	93	85	22.8	196.0	438.5	855.7	46.2
3272	CONCRETE PRODUCTS, NEC	134.4	30.2	104.2	389.7	357.0	96	95	67.7	570.2	1 190.1	1 961.4	96.2
3273	READY-MIXED CONCRETE	353.1	54.1	299.0	231.5	193.7	93	98	85.7	809.3	1 756.7	4 050.9	247.8
3274	LIME	29.7	6.9	22.9	47.2	39.0	92	92	5.7	50.0	129.3	238.1	39.4
3275	GYPSUM PRODUCTS	31.9	4.9	27.0	72.4	66.6	96	98	11.2	115.5	325.1	640.3	23.3
3281	CUT STONE AND STONE PRODUCTS	10.4	2.1	8.3	53.8	50.0	96	95	15.0	109.2	191.4	304.5	12.6
329	MISC. NONMETALLIC MINERAL PRODS.	323.1	65.5	257.6	1 138.5	1 019.8	(NA)	(NA)	115.1	1 025.4	2 358.8	3 994.4	157.0
3291	ABRASIVE PRODUCTS	48.7	12.0	36.7	317.7	247.8	90	97	24.5	229.4	529.6	888.1	17.2
3292	ASBESTOS PRODUCTS	26.0	5.4	20.6	168.0	161.3	92	81	21.0	191.0	426.1	763.4	20.4
3293	GASKETS, PACKING, SEALING DEVICES	46.5	8.0	38.5	208.6	195.5	93	89	27.7	220.4	428.5	665.4	24.9
3295	MINERALS, GROUND OR TREATED	50.2	9.7	40.5	116.3	116.4	96	90	9.5	87.9	237.2	412.0	30.0
3296	MINERAL WOOL	85.9	12.2	73.7	121.5	116.5	93	96	18.0	172.3	441.5	755.4	50.1
3297	NONCLAY REFRACTORIES	37.1	6.9	30.2	159.5	141.8	92	83	8.1	78.3	191.1	343.6	9.3
3299	NONMETALLIC MINERAL PRODUCTS, NEC	28.7	11.2	17.4	46.9	40.5	93	89	6.3	46.0	104.7	166.5	5.0
33	PRIMARY METAL INDUSTRIES	4 496.8	652.8	3 844.0	18 458.3	17 884.5	(NA)	(NA)	1 142.8	12 166.5	23 258.1	58 429.7	2 160.6
331	BLAST FURNACE, BASIC STEEL PROD.	2 442.7	269.1	2 173.6	10 306.4	10 327.8	(NA)	(NA)	552.9	6 388.6	12 116.1	28 652.3	1 058.8
3312	BLAST FURNACES AND STEEL MILLS	2 183.0	225.5	1 917.6	8 471.6	8 620.6	(NA)	(NA)	469.1	5 537.8	10 304.7	23 946.7	961.2
3313	ELECTROMETALLURGICAL PRODUCTS	53.2	4.2	49.1	403.8	367.3	(D)	90	9.5	94.1	217.2	550.1	26.3
3315	STEEL WIRE AND RELATED PRODUCTS	79.4	14.3	65.1	422.8	409.7	95	47	30.6	287.9	583.5	1 227.7	26.6
3316	COLD FINISHING OF STEEL SHAPES	49.6	5.6	43.9	436.6	383.3	95	25	20.1	223.3	504.6	1 635.7	20.6
3317	STEEL PIPE AND TUBES	117.5	19.6	97.9	571.6	546.9	95	44	23.6	245.5	506.1	1 292.1	24.1
332	IRON AND STEEL FOUNDRIES	658.8	129.4	529.4	1 104.8	1 027.1	(NA)	(NA)	218.8	2 155.3	3 481.3	5 713.9	279.9
3321	GRAY IRON FOUNDRIES	503.1	102.3	400.8	654.4	596.2	96	88	138.4	1 387.4	2 257.0	3 876.5	202.5
3322	MALLEABLE IRON FOUNDRIES	28.9	6.5	22.4	43.6	41.1	86	93	22.5	234.5	342.6	507.9	34.9
3324	STEEL INVESTMENT FOUNDRIES	10.9	1.6	9.3	65.6	57.0	93	86	11.2	93.2	175.6	262.2	11.1
3325	STEEL FOUNDRIES, NEC	115.9	19.0	96.9	341.3	332.8	87	91	46.7	440.2	706.0	1 067.4	31.5
333	PRIMARY NONFERROUS METALS	587.2	110.7	476.5	1 952.0	1 819.4	(NA)	(NA)	58.6	626.9	1 705.5	5 964.2	292.2
3331	PRIMARY COPPER	(D)	(D)	(D)	756.6	700.0	(7)	(7)	17.2	173.2	487.8	2 771.1	119.7
3332	PRIMARY LEAD	(D)	(D)	(D)	186.0	162.3	(7)	(7)	2.8	26.5	128.7	460.9	5.7
3333	PRIMARY ZINC	39.8	5.3	34.6	154.1	176.6	83	67	6.3	59.3	121.6	376.4	9.8
3334	PRIMARY ALUMINUM	158.7	22.2	136.5	646.8	590.1	95	70	25.6	296.2	816.0	1 959.8	136.5
3339	PRIMARY NONFERROUS METALS, NEC	97.1	7.4	89.7	208.5	190.5	90	44	6.7	71.7	151.5	395.9	20.6
3341	SECONDARY NONFERROUS METALS	114.3	36.7	77.6	485.2	459.5	97	26	17.8	170.1	410.9	2 097.2	34.8
335	NONFERROUS ROLLING AND DRAWING	460.5	62.4	398.1	4 042.3	3 749.3	(NA)	(NA)	188.3	1 871.3	3 799.5	12 862.6	371.4
3351	COPPER ROLLING AND DRAWING	64.4	7.3	57.1	472.1	496.1	85	92	37.8	383.7	800.3	3 098.8	65.3
3353	ALUMINUM SHEET, PLATE, AND FOIL	157.7	19.0	138.7	1 625.2	1 325.2	92	99	31.3	370.7	692.3	2 685.2	90.3
3354	ALUMINUM EXTRUDED PRODUCTS	48.2	8.6	39.6	337.2	312.8	88	92	27.7	239.2	427.6	1 078.3	32.6
3355	ALUMINUM ROLLING AND DRAWING, NEC	16.1	2.2	13.9	169.5	183.6	91	65	4.6	48.0	57.3	343.4	9.2
3356	NONFERROUS ROLLING & DRAWING, NEC	34.3	5.7	28.6	477.5	483.7	94	93	18.1	184.2	374.1	1 244.6	24.3
3357	NONFERROUS WIREDRAW'G, INSULATING	139.8	19.6	120.2	960.7	948.0	94	93	68.8	645.6	1 448.0	4 412.3	149.7
336	NONFERROUS FOUNDRIES	163.7	32.0	131.8	349.2	316.9	(NA)	(NA)	81.4	721.5	1 269.1	2 323.8	73.5
3361	ALUMINUM FOUNDRIES	121.1	23.2	97.9	205.4	174.7	87	92	45.7	417.9	718.3	1 269.9	38.8
3362	BRASS, BRONZE, COPPER FOUNDRIES	17.9	3.7	14.2	59.2	55.6	85	74	15.4	129.6	236.9	465.3	17.4
3369	NONFERROUS FOUNDRIES, NEC	24.7	5.1	19.6	84.7	86.6	85	77	20.3	174.0	314.0	588.6	17.3
339	MISC. PRIMARY METAL PRODUCTS	69.5	12.5	57.0	218.2	184.4	(NA)	(NA)	25.0	232.8	475.7	815.7	50.0
3398	METAL HEAT TREATING	42.2	9.2	33.0	69.0	48.5	(8)	(8)	17.2	157.3	310.6	467.4	23.1
3399	PRIMARY METAL PRODUCTS, NEC	27.3	3.3	24.0	149.2	135.9	94	70	7.9	75.5	165.0	348.3	26.9
34	FABRICATED METAL PRODUCTS	2 606.1	480.9	2 125.3	15 306.2	14 111.8	(NA)	(NA)	1 493.3	13 820.6	26 914.5	51 739.3	1 323.2
341	METAL CANS, SHIPPING CONTAINERS	208.7	25.7	183.0	1 168.0	1 020.9	(NA)	(NA)	78.6	839.6	2 004.6	4 972.1	146.5
3411	METAL CANS	176.9	19.6	157.3	1 032.9	889.0	96	98	68.5	740.7	1 815.8	4 510.8	138.1
3412	METAL BARRELS, DRUMS, AND PAILS	31.8	6.1	25.7	135.0	132.0	94	90	10.2	98.9	188.8	461.3	8.4
342	CUTLERY, HANDTOOLS AND HARDWARE	298.9	45.9	253.1	1 544.7	1 385.2	(NA)	(NA)	159.2	1 404.9	3 253.4	5 094.3	143.0
3421	CUTLERY	23.3	5.0	18.3	132.1	129.0	92	94	13.4	102.6	322.3	427.5	11.7
3423	HAND AND EDGE TOOLS, NEC	72.0	14.1	58.0	487.4	437.3	91	90	39.3	343.0	780.0	1 233.1	33.5
3425	HANDSAWS AND SAW BLADES	13.4	1.4	12.0	75.5	68.3	86	77	6.6	56.7	127.5	194.4	6.4
3429	HARDWARE, NEC	190.2	25.4	164.8	849.7	750.6	94	94	99.9	902.6	2 023.6	3 239.4	91.4
343	PLUMBING, HEATING, EXCEPT ELEC	74.1	14.8	59.2	567.9	525.8	(NA)	(NA)	60.7	523.8	1 131.6	2 136.8	51.7
3431	METAL SANITARY WARE	11.3	2.0	9.3	65.5	72.1	82	92	11.2	104.4	208.2	370.2	8.2
3432	PLUMBING FITTINGS AND BRASS GOODS	30.3	3.8	26.5	239.8	219.6	96	92	18.6	151.5	361.8	708.2	19.0
3433	HEATING EQUIPMENT, EXC. ELECTRIC	32.4	9.0	23.5	262.6	234.0	87	84	30.9	268.0	561.6	1 058.4	24.5
344	FABRICATED STRUC. METAL PRODS.	580.2	158.7	421.5	4 832.4	4 576.9	(NA)	(NA)	394.8	3 531.8	6 742.9	14 179.6	317.5
3441	FABRICATED STRUCTURAL METAL	144.1	40.3	103.9	1 220.9	1 132.6	92	92	104.3	975.5	1 730.7	3 920.1	74.7
3442	METAL DOORS, SASH, AND TRIM	70.7	18.9	51.8	519.0	438.8	93	91	70.7	520.8	1 003.7	2 077.6	52.1
3443	FABRICATED PLATEWORK, BOILER SHOP	179.8	52.6	127.3	1 566.9	1 576.3	89	92	93.0	893.5	1 758.7	3 339.0	77.3
3444	SHEET METALWORK	110.6	26.5	84.1	841.9	771.5	92	90	74.0	678.5	1 299.9	2 680.0	59.0
3446	ARCHITECTURAL METALWORK	22.2	6.6	15.7	167.3	156.7	90	86	20.9	175.4	311.8	573.7	17.0
3448	PREFABRICATED METAL BUILDINGS	32.2	8.8	23.4	304.6	296.1	94	95	12.5	109.4	275.9	608.9	11.3

See footnotes at end of table.

Table 3. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**–Con.

Code	Industry group and industry	1977									
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
3449	MISCELLANEOUS METALWORK.	308	412	185	16.3	211.5	10.2	20.2	115.7	436.9	1 330.8
345	SCREW MACHINE PROD., BOLTS, ETC. .	2 431	2 627	1 102	104.7	1 414.0	81.6	168.2	983.2	2 864.2	5 091.2
3451	SCREW MACHINE PRODUCTS	1 727	1 770	654	43.8	551.6	36.0	74.3	395.5	1 023.9	1 771.7
3452	BOLTS, NUTS, RIVETS, AND WASHERS . .	723	857	448	60.9	862.4	45.6	93.9	587.6	1 840.3	3 319.5
346	METAL FORGINGS AND STAMPINGS . . .	3 389	3 715	1 875	288.0	4 511.3	236.1	479.6	3 418.9	8 913.4	18 264.2
3462	IRON AND STEEL FORGINGS.	312	358	231	39.1	641.5	31.0	60.8	474.8	1 301.4	2 795.7
3463	NONFERROUS FORGINGS.	43	47	31	5.4	93.7	4.2	8.2	64.8	240.7	456.7
3465	AUTOMOTIVE STAMPINGS	495	591	432	132.4	2 446.0	112.5	236.8	1 956.6	4 654.5	9 739.2
3466	CROWNS AND CLOSURES.	42	56	43	7.9	104.8	6.5	12.6	80.2	265.4	536.9
3469	METAL STAMPINGS, NEC	2 544	2 663	1 138	103.2	1 225.4	82.0	161.2	842.5	2 451.5	4 735.7
347	METAL SERVICES, NEC.	4 880	5 095	1 373	93.5	1 008.5	77.1	153.5	706.3	1 962.9	3 456.3
3471	PLATING AND POLISHING.	3 344	3 447	904	61.2	634.8	51.2	101.3	446.1	1 181.8	1 848.5
3479	METAL COATING AND ALLIED SERVICES. .	1 556	1 648	469	32.3	373.7	25.9	52.2	260.2	781.1	1 607.7
348	ORDNANCE AND ACCESSORIES, NEC. . .	306	346	151	70.2	991.7	46.9	91.7	559.2	1 736.8	2 641.4
3482	SMALL ARMS AMMUNITION.	59	65	16	10.3	138.1	7.7	15.4	95.3	247.5	436.2
3483	AMMUNITION, EXC. SMALL ARMS, NEC . .	68	80	48	18.9	248.1	12.4	23.5	133.2	448.7	716.5
3484	SMALL ARMS	105	112	46	17.5	237.8	13.1	27.1	157.3	481.5	754.9
3489	ORDNANCE AND ACCESSORIES NEC	89	89	41	23.6	367.7	13.7	25.8	173.3	559.2	733.8
349	MISC. FABRICATED METAL PRODUCTS. .	5 780	6 373	2 328	279.4	3 555.8	208.2	406.1	2 318.1	7 854.9	14 752.6
3493	STEEL SPRINGS, EXCEPT WIRE	116	131	59	8.2	119.8	6.6	13.3	88.0	249.9	500.5
3494	VALVES AND PIPE FITTINGS	741	902	532	108.7	1 467.3	76.0	149.6	909.8	3 385.9	5 662.3
3495	WIRE SPRINGS	254	332	226	21.7	253.5	18.0	35.4	187.8	497.7	957.7
3496	MISC. FABRICATED WIRE PRODUCTS . . .	1 048	1 114	387	32.4	354.5	25.5	49.4	232.2	721.7	1 435.0
3497	METAL FOIL AND LEAF.	63	77	52	9.4	125.8	6.6	13.0	87.1	298.0	895.1
3498	FABRICATED PIPE AND FITTINGS	513	579	278	28.2	390.0	21.4	40.6	265.4	887.2	1 872.7
3499	FABRICATED METAL PRODUCTS, NEC . . .	3 142	3 238	794	70.8	844.7	54.1	104.8	547.8	1 814.5	3 429.2
35	MACHINERY, EXCEPT ELECTRICAL . .	44 974	48 200	12 446	2 083.3	30 557.5	1 413.8	2 803.0	18 298.4	67 222.5	122 187.7
351	ENGINES AND TURBINES	251	315	168	129.6	2 237.6	90.1	181.2	1 404.7	4 959.6	10 426.2
3511	TURBINES, TURBINE GENERATOR SETS . .	68	83	37	40.8	709.1	24.8	51.1	368.5	1 553.1	2 729.7
3519	INTERNAL COMBUSTION ENGINES, NEC . .	187	232	131	88.8	1 528.6	65.3	130.1	1 036.2	3 406.5	7 696.5
352	FARM AND GARDEN MACHINERY.	1 991	2 159	756	150.9	2 196.5	110.8	210.4	1 456.4	5 490.2	11 857.0
3523	FARM MACHINERY AND EQUIPMENT	1 868	2 004	664	131.3	1 971.9	96.2	182.7	1 313.3	4 854.4	10 281.7
3524	LAWN AND GARDEN EQUIPMENT.	137	155	92	19.6	224.6	14.7	27.7	143.1	635.8	1 575.3
353	CONSTRUCTION, RELATED MACHINERY. .	2 777	3 229	1 518	333.0	5 096.7	226.3	443.2	3 184.5	11 835.6	23 681.6
3531	CONSTRUCTION MACHINERY	807	922	446	155.3	2 547.1	111.2	212.7	1 708.1	5 744.3	12 628.7
3532	MINING MACHINERY	293	344	168	31.4	425.9	20.3	39.7	262.9	1 018.8	1 996.7
3533	OILFIELD MACHINERY	386	478	247	58.6	867.5	39.8	83.4	543.3	2 437.6	3 912.4
3534	ELEVATORS AND MOVING STAIRWAYS . . .	134	152	72	10.2	141.9	5.9	11.5	69.4	284.5	489.7
3535	CONVEYORS AND CONVEYING EQUIPMENT. .	572	616	294	32.9	476.5	19.2	38.5	226.6	1 018.9	1 897.9
3536	HOISTS, CRANES, AND MONORAILS. . . .	231	242	121	15.8	210.5	10.6	20.6	122.0	453.2	836.0
3537	INDUSTRIAL TRUCKS AND TRACTORS . . .	450	475	170	28.8	427.3	19.4	36.7	252.2	878.2	1 920.1
354	METALWORKING MACHINERY	10 164	10 630	2 680	297.8	4 513.9	217.8	447.4	2 963.1	8 746.7	13 283.0
3541	MACHINE TOOLS, METAL-CUTTING	874	919	307	59.5	951.0	37.3	76.6	542.2	1 871.0	2 819.1
3542	MACHINE TOOLS, METAL-FORMING	411	426	163	23.7	360.7	16.1	32.8	219.4	721.9	1 130.6
3544	SPECIAL DIES, TOOLS, JIGS, ETC . . .	7 033	7 152	1 426	105.6	1 706.3	86.3	183.8	1 260.4	2 786.9	3 901.3
3545	MACHINE TOOL ACCESSORIES	1 271	1 412	492	54.1	762.5	39.9	80.2	498.2	1 585.8	2 384.5
3546	POWER DRIVEN HANDTOOLS	99	124	71	27.7	325.7	20.0	38.5	210.4	931.9	1 623.2
3547	ROLLING MILL MACHINERY	58	63	38	7.9	128.2	5.4	10.4	78.4	286.9	507.4
3549	METALWORKING MACHINERY, NEC.	522	534	183	19.4	279.5	12.8	25.2	154.1	562.2	916.8
355	SPECIAL INDUSTRY MACHINERY	3 798	4 090	1 487	185.0	2 615.9	117.6	235.7	1 449.9	5 271.4	9 128.2
3551	FOOD PRODUCTS MACHINERY.	685	740	315	36.3	522.1	22.8	45.4	292.6	1 056.4	1 786.8
3552	TEXTILE MACHINERY.	600	639	217	26.0	300.8	18.3	36.3	185.3	540.0	951.0
3553	WOODWORKING MACHINERY.	291	301	105	10.3	131.2	7.4	14.7	81.9	317.8	585.6
3554	PAPER INDUSTRIES MACHINERY	193	213	103	16.4	247.5	9.3	18.8	123.8	464.9	826.9
3555	PRINTING TRADES MACHINERY.	520	595	199	25.5	369.2	15.6	31.7	192.9	793.6	1 350.9
3559	SPECIAL INDUSTRY MACHINERY, NEC. . .	1 548	1 602	548	70.6	1 045.1	44.1	88.7	573.4	2 098.7	3 627.0
356	GENERAL INDUSTRIAL MACHINERY . . .	4 464	4 947	1 806	313.5	4 451.1	212.4	420.6	2 712.4	9 672.6	16 542.0
3561	PUMPS AND PUMPING EQUIPMENT.	515	613	285	63.0	900.6	39.8	79.5	506.9	2 141.6	3 773.7
3562	BALL AND ROLLER BEARINGS	102	149	104	50.6	752.6	41.3	82.4	579.9	1 472.7	2 567.3
3563	AIR AND GAS COMPRESSORS.	148	175	103	32.0	465.6	19.1	38.2	255.2	1 145.5	2 075.6
3564	BLOWERS AND FANS	432	482	198	28.0	356.8	18.6	36.7	209.6	776.7	1 430.8
3565	INDUSTRIAL PATTERNS.	1 001	1 002	115	9.3	152.7	8.0	15.8	122.2	252.5	320.6
3566	SPEED CHANGERS, DRIVES, AND GEARS. .	307	327	162	25.3	365.4	17.6	35.0	226.7	803.1	1 222.3
3567	INDUSTRIAL FURNACES AND OVENS. . . .	311	327	137	15.2	209.4	9.3	17.9	107.4	469.3	746.3
3568	POWER TRANSMISSION EQUIPMENT, NEC. .	184	226	163	32.5	464.8	23.8	45.8	306.8	1 009.1	1 626.0
3569	GENERAL INDUSTRIAL MACHINERY, NEC. .	1 586	1 646	539	57.5	783.2	34.9	69.2	397.7	1 602.2	2 779.5
357	OFFICE AND COMPUTING MACHINES. . .	1 175	1 317	610	259.3	3 948.8	123.5	243.3	1 384.4	9 921.4	16 841.9
3573	ELECTRONIC COMPUTING EQUIPMENT . . .	808	932	435	192.7	3 004.3	85.5	172.4	978.4	7 623.5	12 923.6
3574	CALCULATING, ACCOUNTING MACHINES . .	58	64	31	17.1	220.7	10.4	18.1	92.9	391.3	850.0
3576	SCALES, BALANCES, EXC. LABORATORY. .	92	103	46	7.1	84.5	4.7	9.1	46.9	214.9	348.1
3579	OFFICE MACHINES, TYPEWRITERS, ETC. .	191	215	98	42.4	639.1	22.9	43.7	266.1	1 691.4	2 719.7
358	REFRIGERATION AND SERVICE MACH . .	1 922	2 114	837	191.5	2 516.4	138.4	270.7	1 637.4	5 962.6	12 416.1
3581	AUTOMATIC MERCHANDISING MACHINES . .	108	113	35	8.8	103.2	6.4	12.4	65.1	211.7	410.1
3582	COMMERCIAL LAUNDRY EQUIPMENT	90	94	38	4.6	54.4	3.3	6.4	35.6	117.3	220.3
3585	REFRIGERATION, HEATING EQUIPMENT . .	731	860	457	138.6	1 849.7	104.4	205.4	1 270.2	4 469.2	9 638.1
3586	MEASURING AND DISPENSING PUMPS . . .	57	59	30	7.4	97.3	5.1	9.7	57.9	218.0	375.7
3589	SERVICE INDUSTRY MACHINERY, NEC. . .	959	988	277	32.1	411.8	19.2	36.9	208.6	946.4	1 771.8
359	MISC. MACHINERY, EXC. ELEC	19 257	19 399	2 584	222.7	2 980.4	176.8	350.5	2 105.6	5 362.4	8 011.8
3592	CARBURETORS, PISTONS, RINGS, ETC . .	131	151	84	32.2	508.5	26.0	52.5	388.5	924.9	1 400.6
3599	MACHINERY, EXCEPT ELECTRICAL, NEC. .	19 137	19 248	2 500	190.5	2 471.8	150.8	298.0	1 717.1	4 437.6	6 611.2

See footnotes at end of table.

Table 3. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977—Continued							1972			
		New capital expenditures[4]			Inventories		Ratios		All employees			
		Total (million dollars)	Structures and additions to plant (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Specialization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
3449	MISCELLANEOUS METALWORK.	20.5	5.2	15.3	211.8	204.8	91	78	19.5	178.8	362.2	980.4	26.2
345	SCREW MACHINE PROD., BOLTS, ETC.	184.1	26.6	157.5	944.9	881.3	(NA)	(NA)	100.6	948.0	1 845.3	3 091.5	88.9
3451	SCREW MACHINE PRODUCTS	71.9	9.1	62.8	230.6	207.9	96	92	40.5	357.3	648.5	1 063.8	33.2
3452	BOLTS, NUTS, RIVETS, AND WASHERS	112.3	17.5	94.8	714.3	673.3	94	94	60.1	590.7	1 196.8	2 027.6	55.7
346	METAL FORGINGS AND STAMPINGS	604.4	78.9	525.6	2 361.4	2 160.0	(NA)	(NA)	263.5	2 791.4	5 057.3	9 956.9	237.7
3462	IRON AND STEEL FORGINGS.	126.7	16.5	110.2	452.7	429.8	92	84	34.3	387.2	661.8	1 416.1	28.1
3463	NONFERROUS FORGINGS.	13.7	3.6	10.1	123.8	101.1	87	67	5.8	63.7	104.0	222.5	7.0
3465	AUTOMOTIVE STAMPINGS	292.2	25.1	267.1	948.3	872.8	92	91	123.3	1 485.4	2 663.8	5 286.0	117.5
3466	CROWNS AND CLOSURES.	17.1	2.0	15.1	121.0	99.2	95	86	8.1	74.1	166.7	343.5	8.3
3469	METAL STAMPINGS, NEC	154.7	31.6	123.0	715.7	657.2	[illegible]	88	92.0	781.0	1 461.0	2 688.8	76.7
347	METAL SERVICES, NEC.	121.1	22.2	98.8	287.2	251.6	(NA)	(NA)	82.1	624.2	1 120.3	1 736.3	64.2
3471	PLATING AND POLISHING.	73.2	14.7	58.4	128.3	112.5	(D)	(D)	54.6	403.1	741.2	1 034.5	40.2
3479	METAL COATING AND ALLIED SERVICES.	47.9	7.5	40.4	159.0	139.2	(D)	(D)	27.6	221.1	379.2	701.8	24.0
348	ORDNANCE AND ACCESSORIES, NEC.	82.5	15.0	67.5	518.8	462.1	(NA)	(NA)	109.5	1 015.3	1 476.0	2 787.0	61.6
3482	SMALL ARMS AMMUNITION.	42.9	5.7	37.1	117.6	121.9	95	90	13.9	129.3	228.6	438.0	10.8
3483	AMMUNITION, EXC. SMALL ARMS, NEC	9.2	2.0	7.2	58.3	62.7	83	76	54.9	479.1	624.1	1 477.9	24.5
3484	SMALL ARMS	20.5	6.1	14.4	166.7	153.5	94	99	16.1	152.1	278.6	393.5	11.3
3489	ORDNANCE AND ACCESSORIES NEC	10.1	1.3	8.8	176.2	123.9	81	68	24.6	254.8	344.7	477.7	15.0
349	MISC. FABRICATED METAL PRODUCTS.	452.0	93.0	359.1	3 080.9	2 847.1	(NA)	(NA)	244.3	2 141.7	4 283.0	7 784.8	212.2
3493	STEEL SPRINGS, EXCEPT WIRE	14.1	2.4	11.7	81.6	73.7	84	72	8.5	79.9	149.7	331.4	6.6
3494	VALVES AND PIPE FITTINGS	201.2	42.5	158.7	1 508.2	1 374.8	89	[illegible]	94.3	879.9	1 751.2	2 956.9	79.0
3495	WIRE SPRINGS	27.6	4.5	23.1	104.5	105.9	92	92	23.7	193.2	340.7	611.9	12.9
3496	MISC. FABRICATED WIRE PRODUCTS	47.3	10.6	36.6	252.8	233.6	91	37	33.2	261.4	504.4	959.7	28.9
3497	METAL FOIL AND LEAF.	16.1	1.8	14.3	141.1	124.6	80	63	5.4	51.9	126.5	282.0	8.2
3498	FABRICATED PIPE AND FITTINGS	51.0	12.7	38.3	418.4	395.3	94	93	17.5	164.7	363.1	704.4	14.7
3499	FABRICATED METAL PRODUCTS, NEC	94.8	18.5	76.3	574.3	539.2	89	83	61.8	510.7	1 047.4	1 938.6	61.8
35	MACHINERY, EXCEPT ELECTRICAL	4 402.4	948.7	3 453.7	27 170.9	25 153.3	(NA)	(NA)	1 827.7	18 523.3	37 562.9	65 820.7	1 906.3
351	ENGINES AND TURBINES	329.9	44.5	285.4	2 169.6	1 909.0	(NA)	(NA)	116.0	1 320.3	2 899.5	5 507.4	185.5
3511	TURBINES, TURBINE GENERATOR SETS	44.1	5.4	38.8	827.6	775.5	92	82	46.2	548.9	1 225.3	2 189.0	93.5
3519	INTERNAL COMBUSTION ENGINES, NEC	285.8	39.1	246.7	1 342.0	1 133.5	91	88	69.9	771.4	1 674.2	3 318.4	92.0
352	FARM AND GARDEN MACHINERY.	370.5	75.4	295.1	2 464.1	2 441.7	(NA)	(NA)	125.3	1 211.2	2 701.2	5 590.4	163.6
3523	FARM MACHINERY AND EQUIPMENT	341.9	70.5	271.3	2 083.4	2 088.8	92	95	104.6	1 045.7	2 248.0	4 531.4	116.0
3524	LAWN AND GARDEN EQUIPMENT.	28.6	4.9	23.8	380.7	352.9	92	82	20.7	165.5	453.2	1 059.1	47.6
353	CONSTRUCTION, RELATED MACHINERY.	932.4	268.4	664.0	6 156.5	6 095.7	(NA)	(NA)	275.4	2 855.7	5 962.2	11 089.5	282.1
3531	CONSTRUCTION MACHINERY	498.3	151.4	346.8	3 142.3	3 171.8	91	95	133.8	1 460.2	3 130.7	6 091.0	159.5
3532	MINING MACHINERY	67.0	23.8	43.2	646.1	603.7	[illegible]	86	21.3	197.6	393.2	771.2	13.4
3533	OILFIELD MACHINERY	257.5	67.9	189.7	1 212.5	1 216.0	88	95	35.9	357.5	788.6	1 213.0	54.7
3534	ELEVATORS AND MOVING STAIRWAYS	8.8	1.8	7.1	119.1	123.0	96	93	15.0	144.5	310.2	483.6	7.8
3535	CONVEYORS AND CONVEYING EQUIPMENT.	34.7	9.0	25.7	363.8	329.9	90	87	27.2	275.5	540.1	968.0	13.2
3536	HOISTS, CRANES, AND MONORAILS.	17.9	4.5	13.3	203.6	196.6	87	76	16.3	160.9	274.7	527.3	13.8
3537	INDUSTRIAL TRUCKS AND TRACTORS	48.3	10.0	38.3	469.1	454.7	94	95	25.8	259.5	524.7	1 035.4	19.7
354	METALWORKING MACHINERY	438.6	79.1	359.5	2 848.1	2 510.1	(NA)	(NA)	268.1	2 858.6	4 901.7	7 267.0	218.8
3541	MACHINE TOOLS, METAL-CUTTING	82.2	15.4	66.8	878.4	741.5	87	92	52.5	573.8	901.7	1 418.1	35.2
3542	MACHINE TOOLS, METAL-FORMING	24.7	3.2	21.5	359.6	317.2	90	87	24.1	265.4	417.7	696.3	17.5
3544	SPECIAL DIES, TOOLS, JIGS, ETC	175.7	29.3	146.4	949.9	378.6	94	79	97.8	1 113.8	1 797.4	2 423.7	97.0
3545	MACHINE TOOL ACCESSORIES	77.2	13.8	63.4	468.5	413.3	[illegible]	88	46.7	456.6	876.1	1 243.4	30.2
3546	POWER DRIVEN HANDTOOLS	39.0	7.4	31.6	326.0	311.4	91	90	23.1	202.3	434.5	730.5	20.3
3547	ROLLING MILL MACHINERY	9.1	.6	8.4	131.8	154.5	78	86	10.4	115.2	206.4	327.8	6.3
3549	METALWORKING MACHINERY, NEC.	30.7	9.3	21.5	233.8	193.7	[illegible]	82	13.6	131.5	267.9	427.3	12.3
355	SPECIAL INDUSTRY MACHINERY	243.6	58.4	185.2	2 309.2	2 172.4	(NA)	(NA)	190.1	1 853.9	3 731.9	6 207.2	160.0
3551	FOOD PRODUCTS MACHINERY.	46.9	9.0	37.9	499.4	453.4	90	92	31.9	315.9	605.2	1 000.1	21.8
3552	TEXTILE MACHINERY.	32.2	7.9	24.3	233.5	256.7	93	94	32.7	271.0	487.9	823.7	27.6
3553	WOODWORKING MACHINERY.	13.8	3.0	10.8	111.6	100.6	94	95	13.7	123.9	285.1	495.2	12.4
3554	PAPER INDUSTRIES MACHINERY	17.2	4.5	12.6	220.2	225.0	84	90	15.3	159.0	254.0	447.8	8.3
3555	PRINTING TRADES MACHINERY.	46.8	14.0	32.7	355.4	316.7	97	92	23.9	249.4	503.6	823.5	16.1
3559	SPECIAL INDUSTRY MACHINERY, NEC.	86.8	20.0	66.8	889.2	820.0	88	85	72.6	734.7	1 596.1	2 616.9	73.8
356	GENERAL INDUSTRIAL MACHINERY	552.7	116.8	435.9	4 013.9	3 698.0	(NA)	(NA)	262.0	2 585.4	5 019.7	8 433.7	232.1
3561	PUMPS AND PUMPING EQUIPMENT.	123.5	26.0	97.5	1 024.0	925.1	88	[illegible]	55.5	532.9	1 095.6	1 917.3	56.9
3562	BALL AND ROLLER BEARINGS	132.9	21.6	111.3	621.7	569.0	96	98	50.9	525.5	931.3	1 530.5	51.3
3563	AIR AND GAS COMPRESSORS.	55.8	10.8	45.0	610.9	589.0	[illegible]	[illegible]	22.9	226.6	467.5	858.4	15.3
3564	BLOWERS AND FANS	37.5	11.2	26.3	242.9	232.6	89	87	23.5	216.1	468.8	805.3	22.2
3565	INDUSTRIAL PATTERNS.	11.1	2.1	9.0	25.2	20.6	97	75	8.5	103.1	161.0	198.0	5.3
3566	SPEED CHANGERS, DRIVES, AND GEARS.	48.5	11.6	36.9	297.8	283.6	87	84	22.5	224.2	409.0	632.7	21.8
3567	INDUSTRIAL FURNACES AND OVENS.	13.4	2.6	10.8	151.4	118.1	91	90	13.6	138.5	244.3	443.2	7.5
3568	POWER TRANSMISSION EQUIPMENT, NEC.	50.3	8.1	42.3	418.8	381.8	82	74	27.7	266.5	544.4	876.4	20.4
3569	GENERAL INDUSTRIAL MACHINERY, NEC.	79.6	22.8	56.8	621.2	578.2	88	86	37.0	351.8	697.7	1 171.9	31.3
357	OFFICE AND COMPUTING MACHINES.	826.1	166.1	660.1	3 887.3	3 331.9	(NA)	(NA)	208.4	2 277.3	4 904.5	8 604.9	287.0
3573	ELECTRONIC COMPUTING EQUIPMENT	651.5	107.3	544.2	3 007.9	2 526.0	94	91	144.8	1 668.3	3 497.6	6 471.2	212.8
3574	CALCULATING, ACCOUNTING MACHINES	56.3	26.2	30.2	218.2	222.0	84	77	22.5	207.2	407.0	637.1	19.0
3576	SCALES, BALANCES, EXC. LABORATORY.	6.8	1.5	5.4	85.7	79.6	96	99	6.7	59.3	129.7	200.4	5.7
3579	OFFICE MACHINES, TYPEWRITERS, ETC.	111.5	31.1	80.4	575.3	504.2	76	91	34.5	342.5	870.1	1 296.2	49.6
358	REFRIGERATION AND SERVICE MACH	287.9	55.1	232.8	2 259.5	2 054.1	(NA)	(NA)	197.9	1 863.9	4 426.7	8 711.0	228.2
3581	AUTOMATIC MERCHANDISING MACHINES	7.9	1.6	6.3	109.6	83.2	94	93	10.5	83.6	183.4	324.4	5.6
3582	COMMERCIAL LAUNDRY EQUIPMENT	2.2	.4	1.9	53.5	49.1	90	81	4.8	42.2	88.2	157.0	1.2
3585	REFRIGERATION, HEATING EQUIPMENT	233.0	42.2	190.8	1 632.7	1 507.9	89	95	150.8	1 442.1	3 517.4	7 083.5	201.2
3586	MEASURING AND DISPENSING PUMPS	6.2	1.1	5.2	97.9	89.5	61	82	7.2	67.3	134.1	232.3	4.5
3589	SERVICE INDUSTRY MACHINERY, NEC.	38.5	9.8	28.7	365.9	324.4	91	90	24.4	228.8	503.6	913.8	15.7
359	MISC. MACHINERY, EXC. ELEC	420.8	85.1	335.7	1 662.6	940.4	(NA)	(NA)	184.4	1 697.0	3 015.5	4 409.5	149.2
3592	CARBURETORS, PISTONS, RINGS, ETC	79.9	16.7	63.3	240.0	202.7	82	87	26.7	272.3	500.0	744.3	27.1
3599	MACHINERY, EXCEPT ELECTRICAL, NEC.	340.9	68.4	272.5	822.7	737.6	96	94	157.8	1 424.7	2 515.5	3 665.2	122.2

See footnotes at end of table.

Table 3. Selected Statistics by Major Industry Group and Industry: 1977 and 1972—Con.

Code	Industry group and industry	1977									
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
36	ELECTRIC, ELECTRONIC EQUIP . . .	12 554	14 973	6 338	1 723.1	22 544.2	1 191.4	2 309.2	12 951.6	50 365.7	88 433.1
361	ELECTRIC DISTRIBUTING EQUIPMENT. .	753	947	459	115.3	1 431.3	84.9	162.3	909.9	3 335.9	5 771.7
3612	TRANSFORMERS	229	279	143	43.3	529.6	32.8	62.5	349.8	1 170.0	2 209.1
3613	SWITCHGEAR, SWITCHBOARD APPARATUS. .	542	668	316	72.0	901.7	52.1	99.9	560.1	2 165.9	3 562.6
362	ELECTRICAL INDUSTRIAL APPARATUS. .	1 407	1 646	819	198.4	2 542.6	142.0	278.8	1 572.1	5 614.2	9 591.4
3621	MOTORS AND GENERATORS.	343	447	299	96.9	1 177.6	74.2	145.8	802.6	2 609.8	4 462.7
3622	INDUSTRIAL CONTROLS.	676	726	283	55.4	726.6	35.3	69.0	380.1	1 602.2	2 511.4
3623	WELDING APPARATUS, ELECTRIC. . . .	160	176	87	17.5	285.7	11.3	23.0	165.1	582.7	1 189.6
3624	CARBON AND GRAPHITE PRODUCTS . . .	58	74	48	12.1	164.1	9.0	17.7	110.9	408.4	735.2
3629	ELEC. INDUSTRIAL APPARATUS, NEC. . .	213	223	102	16.5	188.6	12.2	23.4	113.4	411.0	692.4
363	HOUSEHOLD APPLIANCES	528	666	342	162.3	1 898.1	128.7	243.1	1 352.1	5 276.2	10 736.5
3631	HOUSEHOLD COOKING EQUIPMENT. . . .	84	96	58	25.4	289.1	19.1	36.8	197.9	[3]784.1	[3]1 707.2
3632	HOUSEHOLD REFRIGERATORS, FREEZERS. .	33	42	25	35.8	468.6	29.8	56.9	358.0	1 166.1	2 576.6
3633	HOUSEHOLD LAUNDRY EQUIPMENT. . . .	21	31	24	19.4	262.4	15.9	29.4	202.4	844.7	1 792.8
3634	ELECTRIC HOUSEWARES AND FANS . . .	239	291	148	47.3	458.7	37.6	71.4	305.0	1 365.7	2 531.2
3635	HOUSEHOLD VACUUM CLEANERS.	32	35	22	10.4	116.6	7.3	12.9	78.9	378.8	639.9
3636	SEWING MACHINES.	86	91	25	8.2	107.0	6.1	10.6	66.8	208.9	304.9
3639	HOUSEHOLD APPLIANCES, NEC.	65	80	40	15.7	195.6	12.8	25.1	143.2	527.9	1 184.0
364	ELEC. LIGHTING, WIRING EQUIP . . .	1 762	2 009	913	165.0	1 925.4	127.2	244.6	1 292.1	4 741.2	8 357.0
3641	ELECTRIC LAMPS	128	167	64	28.7	322.4	25.3	47.5	266.3	1 089.2	1 651.4
3643	CURRENT-CARRYING WIRING DEVICES. . .	361	413	198	43.9	480.3	33.6	66.2	312.1	1 100.1	1 795.2
3644	NONCURRENT-CARRYING WIR'G DEVICES. .	174	202	123	25.8	330.1	18.4	35.9	210.9	744.4	1 421.8
3645	RESIDENTIAL LIGHTING FIXTURES. . . .	675	710	244	23.7	229.5	18.2	33.4	139.4	494.2	986.6
3646	COMMERCIAL LIGHTING FIXTURES	192	218	122	15.6	169.1	11.1	20.6	98.8	434.7	922.7
3647	VEHICULAR LIGHTING EQUIPMENT	70	75	43	14.5	246.0	11.4	23.3	178.8	536.0	908.5
3648	LIGHTING EQUIPMENT, NEC.	211	224	119	12.8	148.0	9.1	17.7	85.8	342.6	671.0
365	RADIO, TV RECEIVING EQUIPMENT. . .	1 223	1 290	325	97.7	1 097.0	75.4	143.8	740.0	3 078.1	6 913.2
3651	RADIO AND TV RECEIVING SETS.	546	581	192	74.6	852.4	57.6	106.6	570.0	2 350.9	5 731.6
3652	PHONO. RECORDS, PRERECORDED TAPE . .	679	709	133	23.1	244.6	17.8	37.2	170.0	727.3	1 181.7
366	COMMUNICATION EQUIPMENT.	2 068	2 385	1 126	458.5	6 995.0	259.6	499.5	3 226.2	14 130.0	22 744.2
3661	TELEPHONE AND TELEGRAPH APPARATUS. .	208	264	154	124.4	1 818.0	87.1	164.2	1 125.9	4 192.0	7 858.3
3662	RADIO AND TV COMMUNICATION EQUIP . .	1 873	2 121	972	334.1	5 177.0	172.4	335.2	2 100.3	9 938.0	14 886.0
367	ELECTRONIC COMPONENTS, ACCESS. . .	4 019	4 455	1 671	373.5	4 556.5	257.9	508.7	2 457.4	9 259.6	15 389.6
3671	ELECTRON TUBES, RECEIVING TYPE . . .	125	146	60	36.7	514.1	27.5	53.7	324.5	909.6	1 581.7
3674	SEMICONDUCTORS, RELATED DEVICES. . .	499	545	219	114.0	1 601.1	63.5	126.5	670.3	3 414.0	5 327.1
3675	ELECTRONIC CAPACITORS.	86	118	97	28.9	260.5	23.4	45.7	179.0	486.1	742.3
3676	ELECTRONIC RESISTORS	77	101	80	21.3	210.9	15.9	32.4	130.6	401.0	578.3
3677	ELECTRONIC COILS AND TRANSFORMERS. .	276	294	194	20.7	166.6	17.1	31.8	113.1	289.1	506.4
3678	ELECTRONIC CONNECTORS.	106	133	107	26.0	303.6	19.1	37.6	185.1	754.2	1 104.6
3679	ELECTRONIC COMPONENTS, NEC	3 005	3 118	914	125.9	1 499.7	91.4	181.0	854.7	3 005.7	5 549.2
369	MISC. ELEC. EQUIPMENT, SUPPLIES. .	1 340	1 575	683	152.4	2 098.3	115.7	228.4	1 401.8	4 930.4	8 929.5
3691	STORAGE BATTERIES.	134	218	134	25.9	358.7	21.1	43.4	276.4	927.8	1 982.5
3692	PRIMARY BATTERIES, DRY AND WET . . .	41	58	33	11.0	118.2	9.0	18.0	87.4	343.2	666.1
3693	X-RAY APPARATUS AND TUBES.	212	243	126	30.9	467.6	17.1	33.3	195.5	1 231.9	1 884.7
3694	ENGINE ELECTRICAL EQUIPMENT.	372	409	181	63.8	948.4	51.8	102.6	708.6	2 041.3	3 647.2
3699	ELECTRICAL EQUIP., SUPPLIES, NEC . .	612	647	209	20.7	205.3	16.7	31.1	133.9	386.2	749.0
37	TRANSPORTATION EQUIPMENT	8 934	10 176	3 653	1 768.2	30 673.5	1 284.4	2 612.7	20 314.3	64 291.1	166 954.0
371	MOTOR VEHICLES AND EQUIPMENT . . .	3 591	4 234	1 708	876.3	16 037.7	727.6	1 524.2	12 682.4	37 023.1	117 746.5
3711	MOTOR VEHICLES AND CAR BODIES. . . .	254	322	119	343.6	7 077.6	289.9	620.4	5 724.9	18 723.7	76 517.8
3713	TRUCK AND BUS BODIES	770	820	313	34.8	428.6	27.4	53.9	307.6	946.3	2 003.3
3714	MOTOR VEHICLE PARTS, ACCESSORIES . .	2 194	2 623	997	450.7	8 004.0	372.5	777.2	6 284.9	16 263.8	35 750.8
3715	TRUCK TRAILERS	316	353	165	28.1	322.0	22.5	43.1	229.9	645.9	1 910.1
3716	MOTOR HOMES.	80	116	114	19.2	205.4	15.4	29.6	135.1	443.3	1 564.5
372	AIRCRAFT AND PARTS	1 027	1 173	549	430.8	7 620.5	240.1	475.0	3 563.5	14 731.7	25 867.1
3721	AIRCRAFT	151	176	74	222.7	3 975.9	119.0	232.7	1 765.2	8 134.1	14 834.2
3724	AIRCRAFT ENGINES AND ENGINE PARTS. .	226	269	177	106.1	1 939.4	62.4	128.7	970.0	3 599.1	6 272.3
3728	AIRCRAFT EQUIPMENT, NEC.	681	728	298	102.0	1 705.2	58.7	113.7	828.3	2 998.4	4 760.6
373	SHIP, BOAT BUILDING, REPAIRING . .	2 692	2 795	736	220.2	2 939.8	175.5	345.6	2 132.1	4 681.4	8 317.8
3731	SHIP BUILDING AND RFPAIRING.	542	605	314	176.4	2 494.0	139.9	277.2	1 807.4	3 825.0	6 495.1
3732	BOAT BUILDING AND REPAIRING.	2 148	2 190	422	43.8	445.8	35.6	68.4	324.7	856.3	1 822.6
3743	RAILROAD EQUIPMENT	145	201	118	56.3	888.6	42.6	79.4	619.9	1 882.8	4 278.3
3751	MOTORCYCLES, BICYCLES, AND PARTS . .	343	350	63	15.6	168.9	13.3	24.6	129.9	369.8	1 007.6
376	GUIDED MISSILES, SPACE VEHICLES. .	74	109	86	119.8	2 427.8	46.2	90.2	770.6	4 421.9	6 599.3
3761	GUIDED MISSILES, SPACE VEHICLES. . .	20	40	37	94.0	1 931.5	35.2	67.0	603.8	[2]3 564.8	[2]5 314.4
3764	SPACE PROPULSION UNITS AND PARTS . .	18	25	24	18.6	356.6	7.1	14.9	111.5	620.7	945.5
3769	SPACE VEHICLE EQUIPMENT, NEC	41	42	25	7.2	139.2	3.9	8.3	55.3	236.3	339.4
379	MISC. TRANSPORTATION EQUIPMENT . .	1 206	1 314	393	49.1	590.7	39.1	73.8	415.9	1 180.5	3 137.5
3792	TRAVEL TRAILERS AND CAMPERS.	775	861	266	26.3	275.7	21.8	40.7	197.1	510.3	1 582.4
3795	TANKS AND TANK COMPONENTS.	20	24	18	12.4	208.5	10.0	19.8	156.2	437.6	934.2
3799	TRANSPORTATION EQUIPMENT, NEC. . . .	408	429	109	10.3	106.6	7.4	13.3	62.6	232.7	620.9
38	INSTRUMENTS, RELATED PRODUCTS. .	6 616	7 481	2 538	559.1	7 520.4	347.2	677.9	3 743.2	18 762.0	28 897.8
3811	ENGINEERING, SCIENTIFIC INSTRU . . .	740	786	279	42.3	584.4	24.7	48.7	280.7	1 287.2	1 926.7
382	MEASURING, CONTROLLING DEVICES . .	1 847	2 079	849	200.1	2 665.8	121.4	237.6	1 288.4	5 242.3	7 910.3
3822	ENVIRONMENTAL CONTROLS	182	201	91	39.0	450.3	30.6	57.9	315.6	859.6	1 358.7
3823	PROCESS CONTROL INSTRUMENTS.	383	426	207	46.5	664.8	23.4	47.0	265.9	1 399.4	2 022.0
3824	FLUID METERS AND COUNTING DEVICES. .	100	111	62	15.9	197.6	11.2	22.5	118.0	429.0	650.4
3825	INSTRU. TO MEASURE ELECTRICITY . . .	622	671	279	66.5	889.1	40.4	78.3	414.5	1 807.7	2 761.0
3829	MEASUR'G, CONTROL'G DEVICES, NEC . .	649	670	210	32.3	464.0	15.8	31.8	174.5	746.6	1 118.1

See footnotes at end of table.

Table 3. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**–Con.

Code	Industry group and industry	1977--Continued							1972			
		New capital expenditures[4]			Inventories		Ratios		All employees				
		Total (million dollars)	Structures and additions to plant (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Specialization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
36	ELECTRIC, ELECTRONIC EQUIP	2 866.5	519.9	2 346.6	16 058.7	14 273.0	(NA)	(NA)	1 661.1	15 189.0	30 578.5	53 394.3	1 417.5
361	ELECTRIC DISTRIBUTING EQUIPMENT	141.2	24.7	116.5	1 039.6	944.2	(NA)	(NA)	116.0	1 040.0	2 060.3	3 585.4	63.7
3612	TRANSFORMERS	67.2	8.7	58.5	385.8	344.1	95	97	46.8	420.2	757.3	1 461.9	26.8
3613	SWITCHGEAR, SWITCHBOARD APPARATUS	73.9	16.0	58.0	653.8	600.1	91	91	69.2	619.8	1 303.0	2 123.5	36.9
362	ELECTRICAL INDUSTRIAL APPARATUS	311.0	64.5	246.5	2 002.1	1 791.4	(NA)	(NA)	188.0	1 665.1	3 217.9	5 402.3	148.3
3621	MOTORS AND GENERATORS	162.6	28.7	133.8	771.4	678.0	92	80	90.3	764.4	1 475.2	2 501.7	58.9
3622	INDUSTRIAL CONTROLS	57.5	12.8	44.7	616.1	563.9	87	86	51.1	465.6	908.4	1 424.1	46.8
3623	WELDING APPARATUS, ELECTRIC	38.7	14.5	24.1	258.8	226.2	86	94	15.5	173.9	353.5	659.6	11.4
3624	CARBON AND GRAPHITE PRODUCTS	35.4	4.6	30.8	215.9	200.0	94	93	11.3	99.6	217.4	377.4	20.2
3629	ELEC. INDUSTRIAL APPARATUS, NEC	16.8	3.8	13.0	140.0	123.3	87	81	20.2	165.0	270.0	449.4	11.2
363	HOUSEHOLD APPLIANCES	207.0	42.4	164.6	1 674.7	1 524.3	(NA)	(NA)	163.0	1 369.2	3 563.7	6 940.3	151.8
3631	HOUSEHOLD COOKING EQUIPMENT	36.1	8.9	27.1	303.8	283.7	92	80	23.3	205.7	412.0	939.8	25.5
3632	HOUSEHOLD REFRIGERATORS, FREEZERS	46.9	10.7	36.2	399.1	352.1	77	98	34.1	305.3	790.8	1 719.7	25.5
3633	HOUSEHOLD LAUNDRY EQUIPMENT	27.3	7.6	19.7	170.6	162.1	87	90	23.6	223.1	684.7	1 356.5	31.0
3634	ELECTRIC HOUSEWARES AND FANS	47.8	8.3	39.5	429.5	409.2	87	90	51.3	357.5	909.2	1 613.3	32.6
3635	HOUSEHOLD VACUUM CLEANERS	16.2	.7	15.5	85.2	81.0	(D)	81	11.2	98.7	299.5	467.7	9.7
3636	SEWING MACHINES	8.1	.8	7.2	122.3	103.6	(D)	(D)	5.3	54.6	124.6	159.6	9.3
3639	HOUSEHOLD APPLIANCES, NEC	24.6	5.4	19.2	164.2	132.6	93	79	14.0	123.5	341.4	681.9	18.3
364	ELEC. LIGHTING, WIRING EQUIP	217.1	36.9	180.3	1 414.7	1 267.1	(NA)	(NA)	177.1	1 415.7	3 276.8	5 650.8	159.7
3641	ELECTRIC LAMPS	36.6	5.9	30.7	121.4	104.3	97	[illegible]	31.5	239.7	724.4	1 095.7	31.1
3643	CURRENT-CARRYING WIRING DEVICES	55.8	10.3	45.5	341.5	284.7	84	79	50.4	382.5	792.1	1 255.9	53.7
3644	NONCURRENT-CARRYING WIR'G DEVICES	32.8	9.4	23.4	350.5	335.3	82	83	25.7	217.0	490.8	886.4	25.2
3645	RESIDENTIAL LIGHTING FIXTURES	11.8	2.6	9.2	193.2	183.1	95	92	26.5	189.3	390.2	767.2	13.7
3646	COMMERCIAL LIGHTING FIXTURES	18.0	3.5	14.6	182.3	162.5	90	[illegible]	18.8	148.3	350.4	718.7	13.7
3647	VEHICULAR LIGHTING EQUIPMENT	46.3	2.5	43.8	97.1	78.2	68	94	13.6	142.1	299.8	499.8	7.2
3648	LIGHTING EQUIPMENT, NEC	15.8	2.8	13.0	128.6	118.8	[illegible]	81	12.7	107.9	254.3	466.5	16.6
365	RADIO, TV RECEIVING EQUIPMENT	135.7	31.4	104.3	956.2	903.6	(NA)	(NA)	106.9	797.9	2 183.4	5 007.8	75.5
3651	RADIO AND TV RECEIVING SETS	105.8	26.4	79.4	835.0	794.8	94	98	86.5	651.4	1 807.8	4 440.1	58.6
3652	PHONO. RECORDS, PRERECORDED TAPE	29.8	5.0	24.8	121.3	108.8	99	[illegible]	20.3	146.5	375.6	567.7	16.9
366	COMMUNICATION EQUIPMENT	688.7	118.5	570.2	4 662.0	4 110.5	(NA)	(NA)	453.6	4 912.1	8 453.1	13 665.0	381.4
3661	TELEPHONE AND TELEGRAPH APPARATUS	217.3	17.1	200.2	1 503.3	1 220.2	94	97	134.4	1 323.0	2 650.1	4 524.7	169.2
3662	RADIO AND TV COMMUNICATION EQUIP	471.4	101.4	370.0	3 158.7	2 890.3	92	92	319.2	3 589.1	5 803.1	9 140.2	212.2
367	ELECTRONIC COMPONENTS, ACCESS	782.6	126.3	656.3	2 773.3	2 445.6	(NA)	(NA)	335.8	2 869.3	5 305.8	8 825.9	344.4
3671	ELECTRON TUBES, RECEIVING TYPE	52.6	15.2	37.4	254.7	231.1	78	93	11.4	87.7	173.8	230.4	1.8
3674	SEMICONDUCTORS, RELATED DEVICES	409.0	60.8	348.2	909.5	819.3	93	94	97.6	953.1	1 735.1	2 704.8	170.5
3675	ELECTRONIC CAPACITORS	34.0	6.7	27.3	152.4	135.8	92	91	27.6	169.2	298.6	445.8	13.4
3676	ELECTRONIC RESISTORS	25.1	2.7	22.4	104.2	93.7	87	81	20.5	144.5	263.5	372.2	10.4
3677	ELECTRONIC COILS AND TRANSFORMERS	9.2	2.1	7.1	74.5	73.2	91	75	24.2	147.8	228.7	377.8	9.9
3678	ELECTRONIC CONNECTORS	40.4	3.9	36.6	234.5	204.5	78	86	18.1	141.2	345.6	483.3	12.2
3679	ELECTRONIC COMPONENTS, NEC	212.3	34.9	177.4	1 043.4	888.0	79	74	100.5	846.4	1 577.2	3 046.6	86.1
369	MISC. ELEC. EQUIPMENT, SUPPLIES	383.2	75.3	308.0	1 536.1	1 286.3	(NA)	(NA)	120.4	1 121.4	2 497.6	4 315.0	93.5
3691	STORAGE BATTERIES	122.2	31.6	90.7	292.9	239.4	97	99	22.1	209.3	477.8	968.6	30.8
3692	PRIMARY BATTERIES, DRY AND WET	35.4	5.8	29.6	100.1	90.2	96	97	8.4	64.6	221.6	348.1	7.2
3693	X-RAY APPARATUS AND TUBES	63.4	13.1	50.3	542.3	412.6	98	92	12.1	120.9	311.3	443.7	8.1
3694	ENGINE ELECTRICAL EQUIPMENT	146.0	21.6	124.3	488.3	442.1	81	89	57.9	591.3	1 212.6	2 035.0	30.8
3699	ELECTRICAL EQUIP., SUPPLIES, NEC	16.2	3.1	13.1	112.4	102.1	94	77	19.3	130.0	263.9	501.8	16.0
37	TRANSPORTATION EQUIPMENT	4 670.9	695.6	3 975.3	22 240.5	20 745.1	(NA)	(NA)	1 719.0	19 880.0	39 799.4	94 704.9	2 660.2
371	MOTOR VEHICLES AND EQUIPMENT	3 636.1	455.0	3 181.2	9 062.6	7 826.8	(NA)	(NA)	807.5	9 460.5	22 056.2	63 921.4	2 093.2
3711	MOTOR VEHICLES AND CAR BODIES	1 706.1	229.1	1 477.1	4 010.8	3 325.8	95	[illegible]	339.2	4 299.5	11 782.5	42 905.6	917.2
3713	TRUCK AND BUS BODIES	44.2	11.2	33.0	352.1	306.0	94	93	42.6	353.8	659.7	1 564.4	48.3
3714	MOTOR VEHICLE PARTS, ACCESSORIES	1 833.2	189.9	1 643.3	4 124.1	3 699.6	94	87	400.9	4 601.5	9 164.7	18 333.5	1 113.1
3715	TRUCK TRAILERS	36.2	15.8	20.3	355.0	283.0	94	96	24.7	205.6	449.3	1 117.9	14.6
3716	MOTOR HOMES	16.4	8.9	7.5	220.6	212.5	92	94	-	-	-	-	-
372	AIRCRAFT AND PARTS	508.3	89.8	418.5	9 301.8	9 166.0	(NA)	(NA)	438.7	5 281.7	9 123.6	15 451.4	169.0
3721	AIRCRAFT	202.4	40.2	162.2	6 618.5	6 550.7	83	[illegible]	231.8	2 867.1	5 083.0	8 779.3	57.1
3724	AIRCRAFT ENGINES AND ENGINE PARTS	174.9	25.4	149.5	1 440.2	1 360.2	81	[illegible]	104.7	1 256.6	1 991.7	3 640.2	73.0
3728	AIRCRAFT EQUIPMENT, NEC	131.1	24.3	106.8	1 243.1	1 255.2	72	57	102.2	1 158.1	2 048.9	3 031.9	38.9
373	SHIP, BOAT BUILDING, REPAIRING	203.6	82.7	120.9	1 410.6	1 404.9	(NA)	(NA)	185.2	1 703.6	2 398.2	4 329.2	179.1
3731	SHIP BUILDING AND REPAIRING	161.3	68.0	93.3	1 072.5	1 098.5	97	99	144.6	1 422.3	1 881.3	3 281.0	142.0
3732	BOAT BUILDING AND REPAIRING	42.3	14.7	27.6	338.0	306.3	98	96	40.6	281.3	516.8	1 048.2	37.2
3743	RAILROAD EQUIPMENT	80.4	16.6	63.8	850.6	822.8	91	94	50.8	529.1	1 113.3	2 446.2	55.3
3751	MOTORCYCLES, BICYCLES, AND PARTS	24.1	6.0	18.1	226.5	182.1	84	97	17.6	139.6	315.2	659.5	16.0
376	GUIDED MISSILES, SPACE VEHICLES	164.2	27.7	136.5	797.6	850.9	(NA)	(NA)	160.0	2 317.1	3 969.2	5 628.2	92.3
3761	GUIDED MISSILES, SPACE VEHICLES	125.6	21.8	103.8	600.2	653.0	87	91	118.4	1 751.5	2 948.7	4 123.7	62.9
3764	SPACE PROPULSION UNITS AND PARTS	25.3	5.0	20.3	167.5	175.8	92	88	20.8	276.2	506.6	716.3	18.4
3769	SPACE VEHICLE EQUIPMENT, NEC	13.3	.8	12.5	29.8	22.1	85	(D)	20.9	289.3	513.9	788.2	11.0
379	MISC. TRANSPORTATION EQUIPMENT	54.1	17.7	36.4	590.8	492.4	(NA)	(NA)	59.1	448.4	823.7	2 268.9	55.2
3792	TRAVEL TRAILERS AND CAMPERS	31.0	12.4	18.6	193.6	196.0	88	90	37.1	266.3	479.9	1 342.2	35.2
3795	TANKS AND TANK COMPONENTS	13.2	3.2	10.0	287.8	187.9	92	82	5.9	65.0	111.7	272.2	3.1
3799	TRANSPORTATION EQUIPMENT, NEC	9.8	2.2	7.7	109.4	108.5	94	79	16.1	117.2	232.1	654.6	16.9
38	INSTRUMENTS, RELATED PRODUCTS	938.9	235.3	703.6	5 810.6	5 311.1	(NA)	(NA)	453.2	4 286.2	10 580.1	15 526.7	480.0
3811	ENGINEERING, SCIENTIFIC INSTRU	57.4	13.2	44.2	470.1	421.4	(NA)	(NA)	-	-	-	-	-
382	MEASURING, CONTROLLING DEVICES	268.0	74.4	193.7	1 979.4	1 752.3	(NA)	(NA)	152.8	1 436.5	2 723.5	3 992.4	104.8
3822	ENVIRONMENTAL CONTROLS	47.7	11.0	36.7	285.9	250.7	80	92	30.7	253.6	511.8	728.1	17.1
3823	PROCESS CONTROL INSTRUMENTS	92.1	14.9	37.2	555.9	507.8	90	[illegible]	35.6	342.9	620.4	883.6	27.3
3824	FLUID METERS AND COUNTING DEVICES	19.9	4.9	15.0	148.8	136.7	80	80	8.8	76.8	180.9	296.2	7.0
3825	INSTRU. TO MEASURE ELECTRICITY	99.1	28.8	70.3	668.9	580.1	90	[illegible]	54.7	523.5	1 046.8	1 540.8	39.3
3829	MEASURING, CONTROLLING DEVICES, NEC	49.3	14.8	34.5	320.0	277.0	[illegible]	83	24.6	256.7	394.9	601.4	14.7

See footnotes at end of table.

Table 3. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977									
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
3832	OPTICAL INSTRUMENTS AND LENSES	515	545	199	30.0	421.2	16.9	33.6	188.0	897.4	1 330.4
384	MEDICAL INSTRUMENTS, SUPPLIES.	2 058	2 355	679	113.5	1 318.8	76.8	149.2	711.8	3 261.9	5 217.0
3841	SURGICAL AND MEDICAL INSTRUMENTS	575	651	238	43.2	491.4	29.2	57.5	261.4	1 208.8	1 833.1
3842	SURGICAL APPLIANCES AND SUPPLIES	1 017	1 154	322	53.9	624.1	36.8	70.5	345.6	1 594.5	2 597.3
3843	DENTAL EQUIPMENT AND SUPPLIES.	507	550	119	16.3	203.3	10.7	21.2	104.8	458.6	786.7
3851	OPHTHALMIC GOODS	593	634	155	30.0	314.1	21.7	43.1	188.4	656.2	971.8
3861	PHOTOGRAPHIC EQUIP. AND SUPPLIES	702	780	265	111.7	1 899.6	61.7	119.4	886.5	6 732.4	9 946.9
3873	WATCHES, CLOCKS, AND WATCHCASES.	283	302	112	31.5	316.6	24.0	46.3	199.4	684.5	1 594.7
39	MISC. MANUFACTUR'G INDUSTRIES.	16 550	17 259	3 794	440.7	4 406.4	338.7	626.7	2 745.3	10 291.0	19 150.7
391	JEWELRY, SILVER AND PLATED WARE.	3 053	3 118	564	61.3	637.6	44.3	81.2	372.8	1 448.5	3 249.3
3911	JEWELRY, PRECIOUS METAL.	2 165	2 206	405	42.1	432.0	29.2	53.3	241.4	979.8	2 107.0
3914	SILVERWARE AND PLATED WARE	247	258	67	10.8	119.8	8.3	15.7	80.2	255.1	457.0
3915	JEWELERS' MATS., LAPIDARY WORK	650	654	92	8.3	85.9	6.8	12.2	51.3	213.6	685.2
3931	MUSICAL INSTRUMENTS.	400	450	127	25.2	252.7	20.6	38.2	178.2	488.2	924.9
394	TOYS AND SPORTING GOODS.	2 713	2 910	835	119.4	1 111.8	93.3	172.4	697.0	2 999.8	5 485.0
3942	DOLLS.	223	231	88	9.1	65.3	8.0	13.3	43.5	181.6	340.2
3944	GAMES, TOYS, CHILDREN'S VEHICLES	754	801	251	53.1	520.6	39.2	73.2	295.0	1 544.6	2 719.7
3949	SPORTING AND ATHLETIC GOODS, NEC	1 757	1 878	496	57.2	525.8	46.1	85.9	358.6	1 273.6	2 425.1
395	PENS, OFFICE AND ART GOODS	913	987	261	31.8	331.1	23.3	45.8	203.2	867.6	1 538.4
3951	PENS AND MECHNICAL PENCILS	133	141	78	13.2	135.6	10.4	20.6	92.9	419.8	669.8
3952	LEAD PENCILS AND ART GOODS	127	134	46	6.6	63.1	4.7	9.2	37.6	145.5	275.9
3953	MARKING DEVICES.	583	612	86	7.4	78.7	4.7	9.1	39.6	160.0	248.7
3955	CARBON PAPER AND INKED RIBBONS	78	100	51	4.6	53.7	3.4	6.9	33.1	142.4	344.0
396	COSTUME JEWELRY AND NOTIONS.	1 458	1 514	467	51.0	450.5	41.6	75.4	293.0	1 002.0	1 766.2
3961	COSTUME JEWELRY.	837	847	236	25.0	215.9	20.8	36.1	136.1	485.1	816.6
3962	ARTIFICIAL FLOWERS	222	233	67	5.0	38.2	4.2	7.1	25.2	91.5	180.2
3963	BUTTONS.	150	159	47	3.2	30.8	2.6	4.7	20.0	50.0	95.2
3964	NEEDLES, PINS, AND FASTENERS	249	275	117	17.7	165.6	14.0	27.5	111.8	375.4	674.2
399	MISCELLANEOUS MANUFACTURES	8 073	8 280	1 540	152.0	1 622.6	115.7	213.7	1 001.0	3 484.8	6 186.9
3991	BROOMS AND BRUSHES	391	409	153	16.5	163.8	12.7	24.0	101.1	353.6	673.1
3993	SIGNS AND ADVERTISING DISPLAYS	3 373	3 468	627	49.7	566.6	36.8	69.2	343.1	1 060.9	1 738.7
3995	BURIAL CASKETS	376	406	133	12.0	129.7	9.3	17.8	79.7	264.2	505.9
3996	HARD SURFACE FLOOR COVERINGS	20	21	13	6.4	93.5	5.0	10.4	68.6	321.3	607.2
3999	MANUFACTURING INDUSTRIES, NEC.	3 921	3 976	614	67.3	669.1	52.0	92.3	408.5	1 484.7	2 662.0
60	ADMINISTRATIVE AND AUXILIARY[10]	-	9 171	4 856	1 074.2	21 981.2	-	-	-	-	-

See footnotes at end of table.

Table 3. Selected Statistics by Major Industry Group and Industry: 1977 and 1972 – Con.

Code	Industry group and industry	1977--Continued							1972				
		New capital expenditures[4]			Inventories		Ratios		All employees				
		Total (million dollars)[5]	Structures and additions to plant (million dollars)[5]	Machinery and equipment (million dollars)[5]	End of year (million dollars)[5]	Beginning of year (million dollars)[5]	Specialization (percent)[6]	Coverage (percent)[6]	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
3832	OPTICAL INSTRUMENTS AND LENSES	51.3	18.4	32.9	302.9	271.8	84	82	18.8	193.3	384.3	538.4	12.7
384	MEDICAL INSTRUMENTS, SUPPLIES	172.0	41.6	130.5	1 038.6	941.6	(NA)	(NA)	90.8	757.7	1 821.3	2 824.5	104.4
3841	SURGICAL AND MEDICAL INSTRUMENTS	87.2	21.7	65.5	360.7	322.5	88	80	34.5	282.4	630.0	961.8	42.0
3842	SURGICAL APPLIANCES AND SUPPLIES	68.6	16.2	52.5	503.7	454.7	87	85	43.9	365.3	929.0	1 453.5	47.5
3843	DENTAL EQUIPMENT AND SUPPLIES	16.2	3.7	12.5	174.1	164.3	92	98	12.4	110.0	262.3	409.2	14.9
3851	OPHTHALMIC GOODS	44.1	13.2	30.9	244.9	224.6	92	98	26.6	183.4	416.3	568.3	17.4
3861	PHOTOGRAPHIC EQUIP. AND SUPPLIES	322.7	69.2	253.5	1 503.0	1 428.2	95	95	96.0	1 119.7	4 087.9	5 623.9	202.9
3873	WATCHES, CLOCKS, AND WATCHCASES	23.2	5.4	17.9	271.7	271.2	91	95	30.8	230.3	466.0	937.2	18.8
39	MISC. MANUFACTURING INDUSTRIES	473.6	112.1	361.5	3 614.2	3 309.0	(NA)	(NA)	445.6	3 179.8	6 768.7	12 173.2	313.6
391	JEWELRY, SILVER AND PLATED WARE	39.6	10.1	29.4	752.5	670.8	(NA)	(NA)	53.2	424.5	850.8	1 812.5	21.9
3911	JEWELRY, PRECIOUS METAL	25.6	7.9	17.8	489.8	437.4	92	97	32.6	267.2	536.0	1 124.6	10.3
3914	SILVERWARE AND PLATED WARE	8.0	.7	7.3	142.8	136.8	93	98	13.1	106.4	206.8	377.4	9.8
3915	JEWELERS' MATS., LAPIDARY WORK	5.9	1.6	4.4	119.9	96.5	96	89	8.0	55.7	116.4	323.3	5.3
3931	MUSICAL INSTRUMENTS	13.8	2.7	11.2	243.2	245.4	(NA)	(NA)	24.5	173.4	339.3	617.5	10.6
394	TOYS AND SPORTING GOODS	147.6	33.2	114.4	1 079.2	976.0	(NA)	(NA)	132.7	880.9	1 999.3	3 662.6	121.2
3942	DOLLS	6.4	1.4	5.0	62.5	46.6	94	59	10.2	54.0	98.3	199.1	1.7
3944	GAMES, TOYS, CHILDREN'S VEHICLES	78.5	19.5	58.9	437.7	383.3	86	93	61.5	421.0	980.6	1 734.3	72.7
3949	SPORTING AND ATHLETIC GOODS, NEC	62.7	12.3	50.4	579.1	546.1	95	94	61.0	405.9	920.4	1 729.2	46.7
395	PENS, OFFICE AND ART GOODS	55.3	12.6	42.7	276.1	248.4	(NA)	(NA)	31.7	244.3	556.8	926.7	19.8
3951	PENS AND MECHNICAL PENCILS	32.8	9.1	23.7	123.1	108.6	85	94	10.9	81.9	213.7	310.5	7.6
3952	LEAD PENCILS AND ART GOODS	10.8	1.8	9.0	70.9	64.2	85	79	7.1	50.0	108.2	198.8	3.9
3953	MARKING DEVICES	5.5	.8	4.7	34.3	30.8	85	88	8.1	63.2	121.5	180.0	2.6
3955	CARBON PAPER AND INKED RIBBONS	6.2	.9	5.3	47.8	44.7	96	64	5.7	49.1	113.4	237.5	5.7
396	COSTUME JEWELRY AND NOTIONS	44.0	12.0	32.0	274.6	261.1	(NA)	(NA)	50.4	323.1	719.6	1 248.7	33.5
3961	COSTUME JEWELRY	17.6	7.8	9.8	119.6	110.6	92	89	21.4	132.1	275.7	471.6	6.7
3962	ARTIFICIAL FLOWERS	3.0	1.0	2.0	29.5	27.2	98	91	4.8	26.7	57.5	108.7	3.3
3963	BUTTONS	1.4	.3	1.2	13.9	17.6	98	82	4.0	26.7	51.8	93.7	2.3
3964	NEEDLES, PINS, AND FASTENERS	22.0	3.0	19.0	111.6	105.8	92	95	20.2	137.7	334.5	574.7	21.2
399	MISCELLANEOUS MANUFACTURES	173.3	41.4	131.8	988.6	907.3	(NA)	(NA)	153.0	1 133.6	2 302.8	3 905.2	106.6
3991	BROOMS AND BRUSHES	15.7	2.4	13.3	129.9	119.9	91	89	17.5	118.5	235.5	438.3	13.0
3993	SIGNS AND ADVERTISING DISPLAYS	43.0	13.5	29.5	210.8	190.0	98	97	49.8	415.9	747.7	1 198.1	30.6
3995	BURIAL CASKETS	16.3	2.2	14.2	81.8	78.2	99	98	14.8	109.3	210.3	391.9	8.8
3996	HARD SURFACE FLOOR COVERINGS	16.9	1.9	15.1	84.9	76.2	92	98	5.8	59.4	212.0	342.3	14.0
3999	MANUFACTURING INDUSTRIES, NEC	81.3	21.5	59.8	481.1	442.9	91	90	65.1	430.5	897.2	1 534.7	40.2
--	ADMINISTRATIVE AND AUXILIARY[10]	-	-	-	-	-	-	-	994.3	13 772.3	-	-	-

Note: 1977 and 1972 payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated.

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (X) Not applicable.

[1]The total value of shipments for industry groups (2- and 3-digit) and a few individual industries (4-digit) includes extensive duplication arising from shipments between establishments in the same industry classification.

[2]Establishments in this industry reported value of production instead of value of shipments. Consequently, the formula for computing value added by manufacture was modified to exclude any change in finished product inventories between the beginning and end of the year.

[3]Value added data include government-owned, contractor-operated plants which were estimated based upon averages reported for commercial establishments in prior years. Cost of materials data exclude government-owned materials furnished to government-owned, contractor-operated plants and include fuel and electricity purchased by or for the establishments. Value of shipments data include a calculated value of shipments for government-owned, contractor-operated plants comprised of adjusted value added plus the cost of fuels and electric energy. New capital expenditures include expenditures for plants under construction but not in operation. Capital expenditures of government-owned, contractor-operated plants are excluded from the totals for the industry.

[4]Includes expenditures for plants in operation and for plants under construction but not yet in operation.

[5]Government-owned, privately-operated establishments did not enter into the calculation of "primary product specialization ratio" or "coverage ratio" as all other dollar receipts for these establishments were included in "miscellaneous receipts."

[6]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[7]The value of shipments and cost of materials for this industry include substantial duplication; therefore, the specialization ratios and coverage ratios were not calculated.

[8]Relationships are not meaningful because of the predominance of receipts for contract and commission work on materials owned by others. Such receipts are treated as primary products for this industry.

[9]Establishments in this industry were requested to report value of work done instead of value of shipments. Consequently, the formula for computing value added by manufacture was not adjusted for any inventory change between the beginning and end of the year.

[10]In 1977 and 1972, in addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns reported separately for administrative offices or auxiliary units which serve the manufacturing establishments of a company (e.g., storage warehouses, power plants, research laboratories, garages, repair shops, etc. rather than the general public. Separate reports were obtained if these units were at different general locations from the establishments served or if they serviced more than one manufacturing establishment. The figures shown for these units do not represent a separate industry but rather a balancing total for all manufacturing industries.

Table 4. Selected Statistics for Major Industry Groups by Employment Size of Establishment: 1977

Item	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
ALL INDUSTRIES, TOTAL[1]											
ESTABLISHMENTS, TOTAL	350 757	18 515.1	242 031.9	13 691.0	26 686.7	157 163.7	585 165.6	782 417.7	1 358 526.4	47 459.0	188 436.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	140 626	218.5	2 549.8	198.7	320.2	1 674.7	5 628.1	6 486.7	12 651.7	807.1	1 419.2
5 TO 9 EMPLOYEES E4	48 004	322.9	3 696.1	243.9	462.0	2 392.0	8 157.9	9 158.7	17 270.7	570.5	1 990.0
10 TO 19 EMPLOYEES E2	48 250	664.6	7 466.9	492.1	932.2	4 744.6	16 295.4	19 208.0	35 338.4	1 162.4	4 090.0
20 TO 49 EMPLOYEES E1	51 522	1 618.7	18 030.0	1 218.9	2 334.1	11 405.6	41 270.5	53 756.3	94 476.6	3 118.0	10 867.8
50 TO 99 EMPLOYEES	26 707	1 870.8	20 660.2	1 419.2	2 741.3	13 301.2	48 558.3	69 003.1	116 945.7	3 560.3	14 880.5
100 TO 249 EMPLOYEES	21 546	3 336.4	37 772.2	2 532.9	4 930.2	24 928.7	92 231.6	129 861.6	220 484.9	7 812.1	30 940.7
250 TO 499 EMPLOYEES	8 364	2 886.2	33 659.6	2 193.9	4 287.5	22 579.7	85 872.6	119 291.5	203 486.7	7 095.6	29 684.4
500 TO 999 EMPLOYEES	3 677	2 506.3	32 588.8	1 844.0	3 640.7	21 489.1	86 734.0	116 369.8	201 275.9	6 231.8	29 046.5
1,000 TO 2,499 EMPLOYEES	1 480	2 179.7	32 565.3	1 554.6	3 090.3	21 095.3	84 148.4	109 896.2	188 800.0	7 868.6	26 561.8
2,500 OR MORE EMPLOYEES	581	2 911.1	53 043.4	1 991.0	3 948.2	33 552.7	116 268.8	149 385.8	267 795.8	9 232.6	38 774.6
ADMIN. RECORDS ESTABS.[2] E9	144 662	460.7	5 177.7	378.4	669.5	3 348.2	11 110.9	11 591.2	22 702.1	713.5	3 117.4
20 FOOD AND KINDRED PRODUCTS											
ESTABLISHMENTS, TOTAL[1]	26 656	1 520.0	18 543.6	1 072.0	2 112.4	11 730.7	56 062.2	136 963.7	192 911.6	4 214.9	16 984.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	8 843	13.9	164.6	11.7	19.1	101.5	401.0	1 169.8	1 624.3	157.8	104.4
5 TO 9 EMPLOYEES E5	3 332	22.4	246.2	15.4	30.2	148.5	701.1	1 860.8	2 558.1	57.2	179.6
10 TO 19 EMPLOYEES E2	3 439	47.5	523.4	32.8	64.4	309.3	1 526.9	4 496.9	6 014.8	118.8	445.9
20 TO 49 EMPLOYEES	4 420	143.0	1 605.4	95.8	188.7	904.2	4 962.8	14 787.5	19 725.1	393.1	1 413.3
50 TO 99 EMPLOYEES	2 817	197.2	2 271.2	132.8	264.2	1 317.7	6 898.2	21 837.4	28 798.9	556.5	2 394.0
100 TO 249 EMPLOYEES	2 424	377.4	4 464.3	255.6	507.8	2 663.4	13 376.2	33 531.0	46 887.9	1 060.2	4 313.2
250 TO 499 EMPLOYEES	947	330.4	4 007.3	235.3	461.7	2 554.1	12 063.8	25 909.1	37 902.8	857.9	3 800.6
500 TO 999 EMPLOYEES	335	224.9	2 903.1	170.8	337.5	2 038.5	9 314.4	19 385.7	28 624.9	570.1	2 695.0
1,000 TO 2,499 EMPLOYEES	86	119.4	1 616.4	90.6	178.0	1 171.9	4 998.2	10 790.2	15 765.8	305.6	1 219.4
2,500 OR MORE EMPLOYEES	13	43.9	741.7	31.3	60.7	521.8	1 819.6	3 195.4	5 008.9	137.7	419.5
ADMIN. RECORDS ESTABS.[2] E9	9 760	34.2	393.8	25.3	46.1	240.1	988.8	2 393.2	3 382.1	58.0	248.6
21 TOBACCO PRODUCTS											
ESTABLISHMENTS, TOTAL[1]	228	60.6	750.7	50.4	92.6	570.7	4 334.1	4 729.8	9 050.6	181.2	3 711.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E9	71	.1	.8	.1	.2	.6	2.0	6.0	8.5	.6	2.8
5 TO 9 EMPLOYEES E7	20	.1	1.0	.1	.2	.7	2.6	6.5	9.2	.1	3.0
10 TO 19 EMPLOYEES E3	14	.2	1.4	.2	.3	1.1	1.8	10.1	13.4	.2	6.9
20 TO 49 EMPLOYEES	22	.8	5.4	.6	1.2	3.8	8.8	15.9	25.1	.3	9.0
50 TO 99 EMPLOYEES	16	1.1	11.0	.9	1.7	7.1	36.1	80.3	117.4	1.2	41.7
100 TO 249 EMPLOYEES	41	(15.7)	(137.3)	(12.9)	(24.6)	(95.1)	(465.2)	(1 878.4)	(2 326.4)	(62.5)	(990.0)
250 TO 499 EMPLOYEES	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES	7	4.8	44.2	4.1	7.3	33.2	183.4	269.8	452.8	5.0	71.8
1,000 TO 2,499 EMPLOYEES	4	5.9	83.1	5.1	9.6	71.4	539.1	388.8	927.3	7.5	206.0
2,500 OR MORE EMPLOYEES	6	31.9	466.7	26.4	47.6	357.7	3 095.1	2 073.9	5 170.5	104.0	2 379.7
ADMIN. RECORDS ESTABS.[2] E0	82	.3	2.0	.3	.4	1.5	5.7	10.5	16.2	.2	4.6
22 TEXTILE MILL PRODUCTS											
ESTABLISHMENTS, TOTAL[1]	7 202	875.7	7 881.4	764.6	1 523.1	6 202.8	16 104.5	24 753.2	40 550.5	1 223.5	5 509.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E6	1 499	2.3	21.5	2.3	4.1	16.1	27.3	69.5	120.3	3.7	14.8
5 TO 9 EMPLOYEES E6	693	4.7	40.6	4.1	7.8	29.4	77.0	124.0	201.4	5.0	29.9
10 TO 19 EMPLOYEES E4	879	12.2	105.9	10.2	20.0	75.6	217.9	359.2	574.8	14.2	74.3
20 TO 49 EMPLOYEES E1	1 278	41.2	358.3	34.9	66.9	258.4	706.1	1 020.5	1 723.1	46.9	206.3
50 TO 99 EMPLOYEES	830	59.5	514.2	51.4	99.9	386.9	1 028.7	1 481.9	2 496.4	73.0	311.8
100 TO 249 EMPLOYEES	1 018	160.8	1 425.7	139.5	276.7	1 099.3	2 936.5	4 586.7	7 492.5	235.2	902.4
250 TO 499 EMPLOYEES	587	205.0	1 837.1	179.5	361.3	1 463.5	3 735.7	5 123.9	9 805.4	303.3	1 292.2
500 TO 999 EMPLOYEES	309	208.5	1 936.6	183.0	369.9	1 556.5	4 061.2	5 879.5	9 858.3	271.2	1 342.5
1,000 TO 2,499 EMPLOYEES	97	132.3	1 203.5	115.2	230.7	947.8	2 449.5	3 805.4	6 188.6	230.8	954.2
2,500 OR MORE EMPLOYEES	12	49.4	438.0	44.4	85.9	369.4	864.4	1 302.7	2 089.7	40.2	381.4
ADMIN. RECORDS ESTABS.[2] E0	2 062	13.2	109.7	11.8	22.6	82.8	201.0	304.0	505.1	12.4	70.9
23 APPAREL, OTHER TEXTILE PRODS.											
ESTABLISHMENTS, TOTAL[1]	26 505	1 334.3	9 658.6	1 156.6	2 037.6	7 252.8	19 671.3	20 865.5	40 245.1	456.7	5 535.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E5	7 826	12.7	115.0	12.5	19.4	85.2	235.8	406.6	700.2	4.7	75.4
5 TO 9 EMPLOYEES E4	3 086	20.9	168.1	18.2	31.3	116.0	352.2	468.5	818.9	7.1	98.5
10 TO 19 EMPLOYEES E2	3 660	51.4	409.5	42.5	74.5	274.0	836.8	1 092.1	1 915.5	16.0	228.2
20 TO 49 EMPLOYEES E1	5 405	173.6	1 274.9	148.1	254.0	902.9	2 633.8	3 140.7	5 724.7	52.7	702.0
50 TO 99 EMPLOYEES E1	3 010	210.6	1 466.1	184.1	317.8	1 091.8	2 953.2	2 985.7	5 903.9	67.4	701.8
100 TO 249 EMPLOYEES	2 424	377.1	2 537.7	330.1	578.0	1 955.1	4 978.6	4 624.5	9 516.3	126.3	1 323.3
250 TO 499 EMPLOYEES	845	286.8	1 950.4	252.3	452.2	1 527.0	3 907.7	3 846.8	7 685.2	100.3	1 173.2
500 TO 999 EMPLOYEES	208	131.8	986.2	112.1	204.3	728.4	2 241.2	2 464.3	4 625.9	40.4	776.2
1,000 TO 2,499 EMPLOYEES	35	48.1	501.9	40.2	77.2	388.0	1 065.5	1 309.9	2 355.7	28.3	353.5
2,500 OR MORE EMPLOYEES	8	21.4	248.7	16.5	29.0	184.3	466.5	526.5	998.8	13.6	103.7
ADMIN. RECORDS ESTABS.[2] E9	8 792	41.9	290.1	38.6	64.6	217.0	538.7	517.8	1 056.6	9.8	138.4

See footnotes at end of table.

Table 4. **Selected Statistics for Major Industry Groups by Employment Size of Establishment: 1977**—Con.

Item	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
24 LUMBER AND WOOD PRODUCTS											
ESTABLISHMENTS, TOTAL[1]	37 302	692.4	7 424.7	594.8	1 147.6	5 795.0	16 222.8	23 918.7	39 919.4	1 562.6	4 663.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	21 273	28.9	296.9	28.7	48.3	239.7	717.4	898.3	1 629.5	114.9	155.2
5 TO 9 EMPLOYEES E3	4 756	31.5	304.6	28.1	49.8	240.5	677.1	833.3	1 504.8	73.9	156.0
10 TO 19 EMPLOYEES E1	4 217	57.4	530.3	48.9	86.3	407.7	1 166.3	1 375.9	2 526.0	118.2	274.1
20 TO 49 EMPLOYEES E1	3 695	114.2	1 077.8	96.7	178.9	804.9	2 361.8	3 024.1	5 352.4	219.1	654.6
50 TO 99 EMPLOYEES	1 786	127.2	1 290.8	108.0	210.8	980.9	2 810.3	4 393.5	7 144.8	230.8	920.7
100 TO 249 EMPLOYEES	1 224	183.0	2 032.7	155.8	311.5	1 589.3	4 370.9	6 990.1	11 286.7	369.6	1 289.9
250 TO 499 EMPLOYEES	278	92.8	1 116.9	80.1	162.9	906.9	2 450.6	3 737.6	6 151.3	234.4	695.9
500 TO 999 EMPLOYEES	80	39.3	510.7	33.4	68.7	409.7	1 135.9	1 901.8	3 027.8	144.8	349.5
1,000 TO 2,499 EMPLOYEES	12	(18.1)	(264.1)	(15.2)	(30.4)	(215.4)	(532.5)	(763.9)	(1 296.2)	(56.9)	(167.9)
2,500 OR MORE EMPLOYEES	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ADMIN. RECORDS ESTABS.[2] E9	19 523	37.5	363.0	36.0	61.9	287.5	803.9	1 037.2	1 841.1	101.0	188.5
25 FURNITURE AND FIXTURES											
ESTABLISHMENTS, TOTAL[1]	10 235	463.8	4 448.3	383.6	736.4	3 191.8	8 921.7	8 187.4	16 978.0	388.7	2 750.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	3 762	6.1	57.9	5.9	9.7	40.8	113.0	109.1	235.9	7.2	35.2
5 TO 9 EMPLOYEES E5	1 445	9.8	94.3	8.2	15.2	65.9	186.2	168.1	352.8	7.5	51.9
10 TO 19 EMPLOYEES E3	1 440	19.9	192.2	16.0	30.5	132.8	365.6	355.7	715.9	13.8	97.3
20 TO 49 EMPLOYEES E1	1 615	51.1	495.0	41.2	78.5	340.9	952.4	939.5	1 880.4	35.5	257.3
50 TO 99 EMPLOYEES	885	62.6	586.9	51.4	97.6	410.4	1 197.7	1 159.2	2 337.4	52.2	343.9
100 TO 249 EMPLOYEES	890	106.6	1 003.3	87.4	166.5	713.9	2 013.7	1 908.8	3 876.0	84.8	651.9
250 TO 499 EMPLOYEES	254	87.5	811.2	74.0	142.1	606.5	1 686.2	1 596.9	3 254.4	80.8	558.2
500 TO 999 EMPLOYEES	116	75.8	722.9	62.7	124.0	532.7	1 413.0	1 261.3	2 654.1	57.0	454.4
1,000 TO 2,499 EMPLOYEES	26	(44.5)	(484.5)	(36.8)	(72.2)	(347.9)	(993.9)	(688.9)	(1 671.2)	(49.8)	(300.2)
2,500 OR MORE EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ADMIN. RECORDS ESTABS.[2] E9	4 368	17.4	153.0	15.6	27.6	110.3	289.9	276.7	566.7	11.0	92.0
26 PAPER AND ALLIED PRODUCTS											
ESTABLISHMENTS, TOTAL	6 545	628.7	8 942.9	486.3	985.9	6 323.1	22 170.9	30 148.2	52 085.7	3 295.0	5 641.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E6	1 126	2.2	22.3	1.7	2.8	14.9	44.6	65.9	118.3	(56.9)	14.2
5 TO 9 EMPLOYEES E5	800	4.2	48.2	3.2	6.3	31.8	108.6	161.9	270.2	(D)	31.4
10 TO 19 EMPLOYEES E4	819	11.4	132.4	8.7	17.0	85.8	294.3	403.9	697.8	44.3	77.0
20 TO 49 EMPLOYEES	1 313	42.9	491.9	33.5	65.6	317.7	1 121.3	1 511.6	2 622.4	133.0	292.3
50 TO 99 EMPLOYEES	963	69.1	832.7	53.9	108.1	562.8	1 899.9	2 687.4	4 565.3	162.0	511.7
100 TO 249 EMPLOYEES	1 185	178.8	2 378.1	137.1	278.1	1 642.8	5 101.0	8 056.1	13 111.8	504.7	1 516.5
250 TO 499 EMPLOYEES	315	106.6	1 531.3	84.0	173.0	1 120.4	3 961.6	5 406.2	9 304.3	465.9	1 045.9
500 TO 999 EMPLOYEES	153	105.9	1 737.0	83.7	172.9	1 319.1	4 990.5	6 693.5	11 594.5	955.1	1 201.5
1,000 TO 2,499 EMPLOYEES	68	99.3	1 652.9	75.0	151.7	1 167.2	4 354.4	4 905.4	9 253.4	920.7	926.6
2,500 OR MORE EMPLOYEES	3	8.7	116.0	5.5	10.4	60.5	294.7	256.2	547.7	47.4	64.3
ADMIN. RECORDS ESTABS.[2] E9	1 523	9.5	114.7	7.4	14.3	75.5	230.3	332.2	562.5	16.0	67.8
27 PRINTING AND PUBLISHING											
ESTABLISHMENTS, TOTAL[1]	49 676	1 092.2	14 024.5	625.8	1 152.8	7 322.1	31 979.5	17 794.7	49 716.2	1 597.8	4 200.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	27 530	40.7	508.1	33.1	48.4	295.1	1 157.7	674.9	1 866.1	62.8	140.4
5 TO 9 EMPLOYEES E3	6 933	46.3	539.4	30.3	52.7	316.4	1 100.3	649.6	1 744.1	57.6	126.7
10 TO 19 EMPLOYEES E1	6 159	84.0	941.6	54.3	94.2	550.6	1 847.1	1 076.7	2 909.4	87.7	224.3
20 TO 49 EMPLOYEES E1	5 122	156.0	1 865.0	100.8	188.8	1 061.8	3 804.4	2 143.5	5 924.1	214.1	450.3
50 TO 99 EMPLOYEES	2 114	145.0	1 803.8	90.3	172.6	1 014.5	3 804.2	2 219.4	5 998.8	209.3	535.4
100 TO 249 EMPLOYEES	1 258	189.0	2 367.4	114.5	220.3	1 327.2	5 461.4	3 211.4	8 620.7	311.5	805.0
250 TO 499 EMPLOYEES	375	128.6	1 619.7	69.0	130.2	845.3	4 075.1	2 310.2	6 373.7	245.7	666.1
500 TO 999 EMPLOYEES	182	123.9	1 657.2	57.5	107.8	738.2	4 583.8	2 440.2	7 018.7	147.8	620.1
1,000 TO 2,499 EMPLOYEES	75	112.8	1 643.0	50.7	94.1	740.3	3 844.6	1 853.1	5 673.4	170.3	433.7
2,500 OR MORE EMPLOYEES	19	65.9	1 079.4	25.3	43.7	432.7	2 300.9	1 215.8	3 587.2	90.9	198.6
ADMIN. RECORDS ESTABS.[2] E9	24 655	45.1	554.9	34.1	52.7	314.5	1 226.7	693.3	1 920.1	58.8	151.9
28 CHEMICALS AND ALLIED PRODUCTS[1]											
ESTABLISHMENTS, TOTAL	12 173	880.2	13 839.3	543.8	1 089.9	7 446.2	56 720.6	62 293.8	118 153.6	8 198.9	14 791.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E5	4 086	6.5	89.4	4.8	8.1	45.2	334.8	429.6	800.9	148.9	95.0
5 TO 9 EMPLOYEES E3	1 738	11.8	159.5	7.3	14.7	82.9	662.8	784.8	1 447.9	62.4	157.4
10 TO 19 EMPLOYEES E1	1 744	24.0	327.0	14.5	28.7	160.7	1 335.5	1 680.0	3 005.5	144.5	343.5
20 TO 49 EMPLOYEES	2 026	63.3	859.4	38.2	76.6	422.3	3 363.1	4 947.4	8 260.9	442.4	975.6
50 TO 99 EMPLOYEES	1 061	74.0	1 013.7	44.5	90.0	512.4	4 073.8	5 886.0	9 904.7	479.7	1 274.0
100 TO 249 EMPLOYEES	812	125.2	1 830.5	78.4	160.7	1 014.7	7 941.7	10 318.3	18 095.8	1 628.9	2 411.8
250 TO 499 EMPLOYEES	348	121.4	1 886.4	77.4	158.5	1 104.5	8 987.2	10 761.5	19 590.7	1 526.6	2 422.0
500 TO 999 EMPLOYEES	213	146.8	2 410.6	93.9	189.5	1 384.3	11 261.9	11 163.9	22 283.9	974.0	2 642.5
1,000 TO 2,499 EMPLOYEES	109	165.3	2 764.6	103.0	205.1	1 516.9	11 635.3	10 598.3	22 009.5	2 158.7	2 921.9
2,500 OR MORE EMPLOYEES	36	141.8	2 498.2	81.7	157.9	1 202.5	7 124.5	5 723.9	12 753.7	632.8	1 547.6
ADMIN. RECORDS ESTABS.[2] E9	3 965	13.6	189.3	8.9	16.4	95.0	674.8	663.1	1 337.8	57.0	171.6

See footnotes at end of table.

Table 4. Selected Statistics for Major Industry Groups by Employment Size of Establishment: 1977—Con.

Item	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
29 PETROLEUM AND COAL PRODUCTS											
ESTABLISHMENTS, TOTAL[1]	2 206	146.8	2 696.2	101.1	207.9	1 765.4	16 377.6	81 655.4	97 452.7	2 261.3	5 656.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E1	710	1.4	21.1	1.2	2.2	13.9	96.0	327.1	431.8	11.5	19.3
5 TO 9 EMPLOYEES E1	422	2.8	40.1	1.9	4.1	25.4	139.2	422.2	559.3	18.7	28.1
10 TO 19 EMPLOYEES	300	4.1	57.3	2.8	5.8	34.8	201.0	549.3	749.3	17.8	52.0
20 TO 49 EMPLOYEES	348	10.8	159.6	7.2	14.8	94.4	701.0	2 399.5	3 096.0	160.7	210.1
50 TO 99 EMPLOYEES	148	10.6	157.0	7.1	14.5	95.9	586.6	2 406.4	2 986.6	68.6	198.2
100 TO 249 EMPLOYEES	150	24.6	412.2	17.9	38.1	287.0	2 092.3	10 211.0	12 213.3	249.5	876.8
250 TO 499 EMPLOYEES	63	21.2	401.1	14.8	31.3	271.6	2 575.9	15 786.3	18 166.2	610.9	1 278.8
500 TO 999 EMPLOYEES	45	31.6	632.9	20.9	42.4	406.9	4 396.4	22 669.4	26 952.8	489.5	1 461.0
1,000 TO 2,499 EMPLOYEES	18	(39.8)	(814.8)	(27.4)	(54.7)	(535.4)	(5 589.1)	(26 884.3)	(32 297.5)	(634.2)	(1 532.1)
2,500 OR MORE EMPLOYEES	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ADMIN. RECORDS ESTABS.[2] E0	324	.9	12.7	.7	1.3	7.6	36.2	65.7	101.9	3.3	7.5
30 RUBBER, MISC. PLASTICS PROD.											
ESTABLISHMENTS, TOTAL[1]	11 943	721.3	8 536.0	563.7	1 110.6	5 841.6	19 740.0	20 217.8	39 552.8	1 645.3	4 952.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	3 402	5.5	60.0	5.3	8.6	39.6	140.1	161.3	315.0	14.6	35.9
5 TO 9 EMPLOYEES E5	1 604	10.8	119.2	8.4	16.5	78.4	263.4	289.9	552.7	25.4	63.6
10 TO 19 EMPLOYEES E2	1 643	22.9	246.8	17.7	34.4	156.9	567.2	627.1	1 187.4	53.9	137.0
20 TO 49 EMPLOYEES	2 257	71.7	730.6	57.0	110.4	472.8	1 803.3	1 986.0	3 761.0	185.6	409.8
50 TO 99 EMPLOYEES	1 483	104.9	1 049.9	83.5	162.5	697.5	2 473.9	2 906.4	5 346.6	230.0	596.5
100 TO 249 EMPLOYEES	1 025	159.7	1 694.0	127.7	251.2	1 164.3	3 788.1	4 098.0	7 838.0	391.1	963.5
250 TO 499 EMPLOYEES	340	113.5	1 288.3	88.2	177.6	867.5	3 113.9	2 825.2	5 873.7	217.1	770.0
500 TO 999 EMPLOYEES	105	69.4	821.1	54.7	109.3	586.6	1 928.7	1 772.9	3 698.6	138.5	461.8
1,000 TO 2,499 EMPLOYEES	70	108.5	1 575.6	83.3	163.6	1 143.8	3 967.7	3 907.7	7 695.2	248.0	1 129.0
2,500 OR MORE EMPLOYEES	14	54.4	950.4	37.9	76.5	634.3	1 693.7	1 643.3	3 284.7	141.0	385.5
ADMIN. RECORDS ESTABS.[2] E9	4 093	16.6	177.2	13.9	25.6	118.1	389.5	402.0	791.5	52.5	95.7
31 LEATHER AND LEATHER PRODUCTS											
ESTABLISHMENTS, TOTAL[1]	3 075	242.5	1 859.7	211.5	381.9	1 408.1	3 718.8	3 932.6	7 607.4	96.2	1 098.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	930	1.6	12.5	1.5	2.4	8.7	15.4	31.2	58.3	.6	7.9
5 TO 9 EMPLOYEES E4	326	2.2	18.2	1.9	3.5	12.5	36.7	58.8	95.7	1.1	11.5
10 TO 19 EMPLOYEES E2	332	4.7	38.4	3.9	7.2	26.1	77.3	115.0	191.1	1.5	24.4
20 TO 49 EMPLOYEES E2	456	14.5	110.3	12.5	22.1	80.9	204.0	251.9	454.2	7.7	59.7
50 TO 99 EMPLOYEES	368	25.9	200.7	22.1	39.6	145.1	380.3	460.5	843.6	11.4	116.1
100 TO 249 EMPLOYEES	337	55.9	421.5	49.1	88.1	320.2	859.0	907.9	1 748.3	23.1	256.5
250 TO 499 EMPLOYEES	265	93.6	681.5	83.6	149.9	552.4	1 421.7	1 396.9	2 796.2	32.9	354.4
500 TO 999 EMPLOYEES	56	36.1	286.5	30.8	57.8	210.5	554.5	531.3	1 068.5	14.2	196.0
1,000 TO 2,499 EMPLOYEES	5	8.0	90.1	6.0	11.3	51.8	169.9	179.0	351.5	3.6	72.4
ADMIN. RECORDS ESTABS.[2] E9	1 000	3.6	27.2	3.3	5.6	19.8	50.7	56.7	107.4	1.4	14.8
32 STONE, CLAY, GLASS PRODUCTS											
ESTABLISHMENTS, TOTAL[1]	17 744	613.7	7 943.1	484.4	960.7	5 766.6	19 129.6	16 444.8	35 476.6	1 881.4	4 279.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E6	6 648	11.2	131.9	10.4	18.0	91.0	334.1	342.9	694.5	61.4	58.2
5 TO 9 EMPLOYEES E3	2 844	19.2	234.0	14.6	28.6	158.0	559.9	621.2	1 178.0	52.1	94.1
10 TO 19 EMPLOYEES E1	3 051	42.3	502.9	31.0	60.7	327.5	1 191.9	1 364.0	2 550.4	121.2	198.0
20 TO 49 EMPLOYEES	2 862	87.4	1 067.8	63.5	129.2	683.2	2 398.3	2 703.1	5 082.6	253.8	437.6
50 TO 99 EMPLOYEES	1 103	76.1	919.6	58.5	117.1	634.1	2 138.8	2 094.4	4 214.4	212.4	454.8
100 TO 249 EMPLOYEES	803	122.4	1 597.8	97.4	196.9	1 175.8	4 042.1	3 555.0	7 591.4	514.2	1 037.1
250 TO 499 EMPLOYEES	257	89.0	1 164.0	72.0	144.2	881.0	2 918.6	2 296.2	5 188.7	301.3	715.9
500 TO 999 EMPLOYEES	128	90.7	1 213.4	75.9	148.0	959.3	3 090.5	1 950.8	5 059.0	212.3	703.0
1,000 TO 2,499 EMPLOYEES	42	57.7	822.4	47.6	91.8	649.8	1 777.3	1 043.8	2 821.7	111.5	393.5
2,500 OR MORE EMPLOYEES	6	17.6	289.3	13.4	26.2	207.0	677.9	473.4	1 095.9	41.2	187.1
ADMIN. RECORDS ESTABS.[2] E9	6 310	17.8	202.1	15.4	27.4	138.6	453.6	421.5	875.1	41.0	93.5
33 PRIMARY METAL INDUSTRIES											
ESTABLISHMENTS, TOTAL[1]	7 375	1 113.6	18 745.0	885.3	1 744.0	14 065.2	37 568.2	66 171.3	103 179.4	4 496.8	18 458.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	1 589	2.7	35.6	2.7	4.4	25.6	31.1	113.9	186.6	19.4	26.7
5 TO 9 EMPLOYEES E6	817	5.6	72.4	4.5	8.7	50.9	138.5	210.2	346.7	13.0	49.8
10 TO 19 EMPLOYEES E3	988	13.6	174.2	10.8	21.2	120.4	351.9	492.6	842.1	30.4	110.3
20 TO 49 EMPLOYEES E1	1 347	43.6	542.4	35.2	68.9	373.7	1 226.2	1 942.2	3 149.9	119.6	385.1
50 TO 99 EMPLOYEES	901	64.0	795.5	51.4	102.1	559.7	1 812.7	3 414.1	5 214.5	181.5	743.5
100 TO 249 EMPLOYEES	934	148.8	1 960.8	118.7	238.1	1 418.9	4 191.7	7 641.7	11 801.9	426.0	1 785.8
250 TO 499 EMPLOYEES	412	142.2	2 080.7	112.0	223.4	1 519.2	4 484.0	8 593.0	12 974.2	422.7	2 310.1
500 TO 999 EMPLOYEES	215	146.5	2 380.1	115.5	231.4	1 788.2	5 450.9	10 462.2	15 864.1	495.9	2 771.7
1,000 TO 2,499 EMPLOYEES	99	142.2	2 569.9	112.0	222.7	1 963.5	5 026.1	8 908.0	13 776.4	767.9	2 466.4
2,500 OR MORE EMPLOYEES	73	404.5	8 133.4	322.6	623.1	6 245.2	14 855.2	24 393.6	39 023.0	2 020.4	7 809.1
ADMIN. RECORDS ESTABS.[2] E9	2 189	11.4	151.8	9.6	17.8	109.9	275.7	435.6	711.4	28.2	111.1

See footnotes at end of table.

Table 4. **Selected Statistics for Major Industry Groups by Employment Size of Establishment: 1977**—Con.

Item	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
34 FABRICATED METAL PRODUCTS											
ESTABLISHMENTS, TOTAL[1]	33 712	1 555.7	21 035.9	1 191.6	2 373.8	14 428.8	45 511.5	45 384.8	90 023.5	2 606.1	15 306.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	10 614	17.9	212.6	10.9	27.8	141.1	421.4	426.3	892.0	29.2	140.5
5 TO 9 EMPLOYEES E4	4 746	32.3	390.3	25.1	50.0	259.8	776.5	713.8	1 485.4	50.2	221.7
10 TO 19 EMPLOYEES E2	5 612	78.1	938.3	59.2	117.0	606.7	1 848.0	1 835.9	3 670.3	110.5	520.8
20 TO 49 EMPLOYEES E1	6 452	202.5	2 463.9	156.4	308.6	1 609.9	5 181.3	5 321.4	10 432.7	294.4	1 481.6
50 TO 99 EMPLOYEES	2 970	205.3	2 498.8	159.3	316.6	1 667.8	5 464.6	5 816.9	11 183.7	369.1	1 816.8
100 TO 249 EMPLOYEES	2 182	335.1	4 244.5	256.8	512.6	2 881.2	9 715.8	10 822.1	20 301.1	645.7	3 657.6
250 TO 499 EMPLOYEES	746	255.1	3 382.9	193.5	384.3	2 340.0	7 683.9	8 225.7	15 726.2	396.5	2 945.7
500 TO 999 EMPLOYEES	277	187.6	2 574.4	140.2	276.6	1 782.9	5 766.5	5 034.9	10 685.2	251.5	2 268.8
1,000 TO 2,499 EMPLOYEES	78	115.6	1 780.6	82.6	168.3	1 177.5	4 035.6	2 886.8	6 813.7	186.8	1 322.2
2,500 OR MORE EMPLOYEES	35	126.1	2 549.7	101.6	212.1	1 961.9	4 618.0	4 301.0	8 833.1	272.2	930.6
ADMIN. RECORDS ESTABS.[2] E9	11 868	47.2	565.2	38.9	71.5	377.5	1 140.3	1 068.5	2 208.8	64.0	392.9
35 MACHINERY, EXCEPT ELECTRICAL											
ESTABLISHMENTS, TOTAL[1]	48 200	2 083.3	30 557.5	1 413.8	2 803.0	18 298.4	67 222.5	56 531.6	122 187.7	4 402.4	27 170.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	20 186	33.5	439.0	21.2	51.7	295.1	845.7	523.5	1 441.8	69.7	219.2
5 TO 9 EMPLOYEES E5	7 909	53.2	704.1	39.5	79.7	463.5	1 310.9	798.8	2 096.6	85.7	328.9
10 TO 19 EMPLOYEES E2	7 654	104.8	1 383.2	76.7	153.2	906.0	2 495.6	1 592.6	4 050.4	168.3	613.6
20 TO 49 EMPLOYEES E1	6 450	198.2	2 688.9	146.7	295.1	1 742.2	5 139.6	3 463.7	8 487.0	307.0	1 456.4
50 TO 99 EMPLOYEES	2 632	182.0	2 482.3	129.9	261.6	1 539.2	5 027.7	3 802.9	8 703.8	341.5	1 843.0
100 TO 249 EMPLOYEES	1 854	287.8	3 901.1	195.7	392.8	2 324.6	8 661.7	7 154.0	15 504.6	467.5	3 859.1
250 TO 499 EMPLOYEES	775	270.0	3 724.1	178.8	358.1	2 170.9	8 379.6	6 981.1	15 107.0	517.3	4 020.9
500 TO 999 EMPLOYEES	453	317.2	4 590.0	201.6	398.8	2 597.9	10 214.5	9 227.2	19 148.5	594.8	5 167.0
1,000 TO 2,499 EMPLOYEES	218	325.2	5 023.2	215.8	425.8	3 028.4	12 242.2	10 296.3	22 337.5	756.5	5 045.0
2,500 OR MORE EMPLOYEES	69	311.2	5 621.7	197.9	386.1	3 230.7	12 905.1	12 691.6	25 310.5	1 094.1	4 617.9
ADMIN. RECORDS ESTABS.[2] E9	22 030	69.1	906.4	55.3	100.0	577.8	1 825.2	1 239.6	3 064.9	119.5	576.9
36 ELECTRIC, ELECTRONIC EQUIP.											
ESTABLISHMENTS, TOTAL	14 973	1 723.1	22 544.2	1 191.4	2 309.2	12 951.6	50 365.7	39 369.5	88 433.1	2 866.5	16 058.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	4 904	7.7	91.4	6.7	10.6	52.6	154.8	155.2	351.5	11.1	63.8
5 TO 9 EMPLOYEES E7	1 926	12.9	151.1	9.1	17.5	86.8	316.4	251.3	567.2	17.8	102.6
10 TO 19 EMPLOYEES E5	1 805	24.9	293.8	17.4	34.0	164.4	604.0	487.7	1 086.6	32.9	202.7
20 TO 49 EMPLOYEES E1	2 087	67.4	751.3	48.7	93.7	429.1	1 605.4	1 281.4	2 860.6	81.8	494.8
50 TO 99 EMPLOYEES	1 381	98.2	1 057.4	72.1	138.1	619.1	2 296.6	1 834.5	4 070.4	133.4	761.0
100 TO 249 EMPLOYEES	1 436	226.3	2 445.7	164.5	317.7	1 449.2	5 743.9	4 860.7	10 421.9	312.0	2 115.5
250 TO 499 EMPLOYEES	709	246.8	2 785.1	178.1	346.8	1 672.6	6 595.9	5 511.6	11 949.8	399.0	2 422.8
500 TO 999 EMPLOYEES	420	293.8	3 596.8	209.3	404.9	2 167.0	8 434.4	6 020.1	14 216.1	484.6	2 785.2
1,000 TO 2,499 EMPLOYEES	204	305.1	4 255.2	209.9	408.0	2 448.6	9 511.0	7 436.5	16 722.3	493.2	2 905.1
2,500 OR MORE EMPLOYEES	101	440.0	7 116.4	275.5	537.8	3 862.4	15 103.3	11 530.5	26 186.8	900.6	4 205.3
ADMIN. RECORDS ESTABS.[2] E9	6 203	31.5	377.2	22.9	42.5	211.9	764.7	584.8	1 349.5	42.5	255.2
37 TRANSPORTATION EQUIPMENT											
ESTABLISHMENTS, TOTAL[1]	10 176	1 768.2	30 673.5	1 284.4	2 612.7	20 318.3	64 291.1	103 489.6	166 954.0	4 670.9	22 240.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	4 032	6.2	77.9	6.0	9.7	56.6	139.7	191.3	344.3	9.2	58.0
5 TO 9 EMPLOYEES E7	1 312	8.8	109.6	7.1	13.7	78.4	199.6	245.8	445.6	12.3	73.9
10 TO 19 EMPLOYEES E4	1 179	16.0	191.4	12.5	24.1	133.6	353.8	424.5	776.0	25.5	137.2
20 TO 49 EMPLOYEES E1	1 271	40.5	476.8	31.7	61.9	323.0	897.6	1 080.8	1 963.3	70.3	337.2
50 TO 99 EMPLOYEES	820	58.1	684.4	45.4	88.4	463.7	1 368.2	1 709.5	3 028.7	79.7	542.4
100 TO 249 EMPLOYEES	685	107.2	1 293.1	82.8	159.9	868.7	2 712.0	3 281.2	5 946.9	232.8	1 081.4
250 TO 499 EMPLOYEES	378	132.1	1 643.0	103.7	203.3	1 150.2	3 582.6	4 148.4	7 655.0	186.7	1 429.3
500 TO 999 EMPLOYEES	192	133.1	1 850.4	98.8	194.3	1 237.1	3 718.4	4 255.4	7 943.5	195.9	1 588.0
1,000 TO 2,499 EMPLOYEES	146	221.2	3 682.7	170.4	336.4	2 641.5	8 276.8	10 992.8	19 223.3	519.3	2 792.0
2,500 OR MORE EMPLOYEES	161	1 044.9	20 664.3	726.0	1 520.9	13 361.4	43 042.5	77 159.9	119 627.5	3 359.2	14 201.1
ADMIN. RECORDS ESTABS.[2] E9	4 514	17.2	227.2	14.5	26.7	161.5	411.6	503.9	915.5	23.7	159.4
38 INSTRUMENTS, RELATED PRODUCTS											
ESTABLISHMENTS, TOTAL[1]	7 481	559.1	7 520.4	347.2	677.9	3 743.2	18 762.0	10 503.9	28 897.8	938.9	5 810.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E8	2 878	4.5	56.7	3.6	5.8	28.8	121.3	78.3	213.8	6.7	45.3
5 TO 9 EMPLOYEES E6	1 071	7.1	89.0	4.6	8.8	45.3	198.3	121.2	318.0	9.3	61.9
10 TO 19 EMPLOYEES E4	992	13.7	166.6	8.8	16.7	85.0	362.7	231.0	589.7	18.3	112.5
20 TO 49 EMPLOYEES E1	1 070	33.6	398.8	22.3	43.1	207.1	909.7	577.0	1 473.4	44.1	274.3
50 TO 99 EMPLOYEES	540	39.6	464.7	25.8	50.1	238.6	1 076.0	675.7	1 718.9	52.7	370.6
100 TO 249 EMPLOYEES	462	71.4	824.0	46.3	89.6	432.4	1 983.6	1 325.7	3 258.5	89.1	741.5
250 TO 499 EMPLOYEES	237	84.5	992.7	55.8	110.8	537.5	2 346.3	1 425.0	3 694.5	119.8	886.0
500 TO 999 EMPLOYEES	129	89.0	1 114.0	57.7	113.1	592.0	2 674.6	1 527.9	4 149.3	127.9	956.1
1,000 TO 2,499 EMPLOYEES	62	90.4	1 284.5	56.0	109.7	655.6	2 858.6	1 644.1	4 427.5	133.6	1 019.2
2,500 OR MORE EMPLOYEES	20	125.3	2 129.5	66.4	130.3	920.9	6 230.8	2 898.1	9 054.2	337.3	1 343.2
ADMIN. RECORDS ESTABS.[2] E9	3 340	13.8	173.6	9.3	17.1	85.8	393.6	221.3	615.0	18.1	132.4

See footnotes at end of table.

Table 4. **Selected Statistics for Major Industry Groups by Employment Size of Establishment: 1977**—Con.

Item	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
39 MISC. MANUFACTUR'G INDUSTRIES											
ESTABLISHMENTS, TOTAL[1]	17 259	440.7	4 406.4	338.7	626.7	2 745.3	10 291.0	9 061.4	19 150.7	473.6	3 614.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES E7	8 717	13.1	134.6	12.3	18.9	82.5	294.9	306.0	618.1	11.3	107.0
5 TO 9 EMPLOYEES E3	2 424	16.2	166.2	12.3	22.7	100.9	350.6	368.0	718.1	14.1	119.5
10 TO 19 EMPLOYEES E2	2 323	31.6	310.3	23.4	42.1	185.8	649.8	637.8	1 272.0	24.4	210.9
20 TO 49 EMPLOYEES E1	2 026	62.8	606.5	48.2	87.1	372.4	1 289.6	1 218.6	2 477.7	55.9	400.5
50 TO 99 EMPLOYEES	859	59.9	559.5	47.0	88.1	356.0	1 230.8	1 157.0	2 366.9	47.9	402.6
100 TO 249 EMPLOYEES	602	(162.8)	(1 556.4)	(126.9)	(236.9)	(994.2)	(3 698.5)	(3 308.9)	(6 932.3)	(174.8)	(1 437.4)
250 TO 499 EMPLOYEES	206	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES	74	49.5	537.6	37.3	72.6	348.7	1 319.3	1 068.9	2 349.4	53.8	534.4
1,000 TO 2,499 EMPLOYEES	26	(44.7)	(535.4)	(31.2)	(58.3)	(305.0)	(1 457.6)	(996.3)	(2 416.3)	(91.5)	(401.9)
2,500 OR MORE EMPLOYEES.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ADMIN. RECORDS ESTABS.[2]. E9	8 061	18.9	186.3	16.5	27.3	115.4	409.9	363.3	773.2	15.0	143.8

Note: Data for administrative offices and auxiliary operations are excluded from this table.

(D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1--10 to 19 percent; E2--20 to 29 percent; E3--30 to 39 percent; E4--40 to 49 percent; E5--50 to 59 percent; E5--50 to 59 percent; E6--60 to 69 percent; E7--70 to 79 percent; E8--80 to 89 percent; E9--90 to 99 percent; E0--100 percent.

[2]Data are also included in respective size classes shown.

Table 5. **Selected Statistics for Administrative Offices and Auxiliaries by Major Industry Group of Establishments Serviced: 1977**

1977 code	Major industry group and central administrative offices and auxiliaries	Establishments[1] (number)	Employees (1,000)	Total payroll[2] (million dollars)
	Manufacturing, total[1]	9,171	1,074.2	21,981.2
	Central administrative offices	7,309	694.4	14,776.4
	Research, development, and testing	1,838	202.3	4,380.9
	Warehousing	1,647	36.6	438.7
	Electronic data processing	1,739	51.2	908.8
	Other activities	3,029	89.6	1,476.4
20	Food and kindred products	1,341	102.1	1,929.1
	Central administrative offices	1,061	76.8	1,532.2
	Research, development, and testing	215	8.0	134.2
	Warehousing	270	3.9	48.6
	Electronic data processing	261	5.7	115.3
	Other activities	422	7.7	98.8
21	Tobacco manufactures	48	8.0	146.9
	Central administrative offices	36	5.5	107.4
	Research, development, and testing	9	.4	5.4
	Warehousing	14	.3	1.8
	Electronic data processing	11	.5	6.0
	Other activities	9	1.3	26.3
22	Textile mill products	375	33.2	553.0
	Central administrative offices	309	22.2	389.2
	Research, development, and testing	68	2.5	39.6
	Warehousing	82	2.3	24.5
	Electronic data processing	75	1.8	25.6
	Other activities	121	4.4	74.1
23	Apparel and other textile products	424	27.5	403.6
	Central administrative offices	353	18.6	296.9
	Research, development, and testing	38	.8	13.1
	Warehousing	113	4.3	39.3
	Electronic data processing	76	1.4	14.8
	Other activities	119	2.4	39.5
24	Lumber and wood products	320	14.5	270.2
	Central administrative offices	265	10.6	204.6
	Research, development, and testing	34	1.0	20.0
	Warehousing	56	.3	3.3
	Electronic data processing	57	.8	12.7
	Other activities	115	1.7	29.6
25	Furniture and fixtures	124	9.0	140.1
	Central administrative offices	110	6.8	107.1
	Research, development, and testing	16	.4	7.1
	Warehousing	31	.7	7.1
	Electronic data processing	31	.5	5.9
	Other activities	32	.5	12.9
26	Paper and allied products	251	37.6	902.4
	Central administrative offices	219	31.7	802.0
	Research, development, and testing	65	3.0	57.9
	Warehousing	15	.1	1.3
	Electronic data processing	61	1.6	20.6
	Other activities	59	1.2	20.6
27	Printing and publishing	644	38.9	621.4
	Central administrative offices	490	23.5	405.9
	Research, development, and testing	26	1.0	18.2
	Warehousing	86	4.1	38.5
	Electronic data processing	57	1.8	23.5
	Other activities	343	8.5	135.3
28	Chemicals and allied products	1,170	181.4	3,798.9
	Central administrative offices	857	114.1	2,470.3
	Research, development, and testing	360	46.3	953.3
	Warehousing	242	2.5	30.6
	Electronic data processing	212	7.1	120.6
	Other activities	279	11.4	224.1
29	Petroleum and coal products	287	65.3	1,562.0
	Central administrative offices	233	47.0	1,150.3
	Research, development, and testing	57	12.1	301.9
	Warehousing	30	.3	4.5
	Electronic data processing	47	4.1	68.7
	Other activities	82	1.8	36.6
30	Rubber and miscellaneous plastics products	215	25.2	458.3
	Central administrative offices	180	19.1	343.2
	Research, development, and testing	52	2.8	72.2
	Warehousing	54	.9	10.5
	Electronic data processing	44	1.0	12.2
	Other activities	69	1.4	20.2
31	Leather and leather products	103	10.8	132.3
	Central administrative offices	87	6.9	89.5
	Research, development, and testing	7	(Z)	.5
	Warehousing	40	3.1	28.9
	Electronic data processing	26	.4	5.4
	Other activities	57	.4	8.0
32	Stone, clay, and glass products	600	41.1	797.2
	Central administrative offices	511	29.9	581.0
	Research, development, and testing	107	5.0	89.0
	Warehousing	75	.4	4.7
	Electronic data processing	132	2.0	24.3
	Other activities	333	3.8	98.2
33	Primary metal industries	484	46.8	1,031.0
	Central administrative offices	346	35.1	806.9
	Research, development, and testing	95	7.3	140.0
	Warehousing	60	.5	5.0
	Electronic data processing	82	2.0	50.4
	Other activities	172	1.9	28.7
34	Fabricated metal products	549	50.1	986.5
	Central administrative offices	477	36.7	744.3
	Research, development, and testing	110	6.7	120.6
	Warehousing	73	.9	10.9
	Electronic data processing	113	2.3	42.4
	Other activities	168	3.6	68.3
35	Machinery, except electrical	754	93.1	1,884.8
	Central administrative offices	592	61.4	1,330.0
	Research, development, and testing	178	15.2	248.5
	Warehousing	146	3.7	57.4
	Electronic data processing	140	4.9	93.3
	Other activities	300	7.9	155.6
36	Electric and electronic equipment	694	140.0	2,840.9
	Central administrative offices	553	69.8	1,535.1
	Research, development, and testing	185	37.1	775.8
	Warehousing	153	4.9	68.5
	Electronic data processing	153	8.0	158.2
	Other activities	168	20.2	303.3
37	Transportation equipment	403	105.5	2,640.9
	Central administrative offices	307	50.5	1,312.5
	Research, development, and testing	108	42.8	1,159.1
	Warehousing	51	2.2	38.1
	Electronic data processing	80	3.0	65.7
	Other activities	88	7.0	65.5
38	Instruments and related products	228	32.8	691.6
	Central administrative offices	195	19.7	420.7
	Research, development, and testing	78	9.2	208.0
	Warehousing	38	.6	7.8
	Electronic data processing	44	1.7	33.7
	Other activities	43	1.5	21.4
39	Miscellaneous manufacturing industries	157	11.2	190.1
	Central administrative offices	128	8.4	147.3
	Research, development, and testing	30	.7	16.5
	Warehousing	38	.6	7.4
	Electronic data processing	37	.7	9.5
	Other activities	50	.8	9.4

Z Less than 50 employees.

[1]Detailed establishment data exceed totals since some establishments participate in more than one activity.

[2]Total payroll data for each industry group are actual. Detail data are estimates based on reported employment and average annual salaries determined from data collected in the 1977 Enterprise Statistics series.

Table 6. Employment Statistics for Operating Manufacturing Establishments and Administrative Offices and Auxiliaries by Major Industry Group: 1977 and Prior Census Years

1977 code	Major industry group and year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries	
		Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
	All industries.....1977..	19,590.1	264,013.1	18,515.9	242,031.9	1,074.2	21,981.2
	1972..	19,028.7	174,205.5	18,034.4	160,433.2	994.3	13,772.3
	1967..	19,322.9	132,208.5	18,492.3	123,480.6	830.9	8,727.9
	1963..	16,958.4	99,898.8	16,231.9	93,283.3	726.5	6,615.5
20	Food and kindred products.....1977..	1,622.1	20,472.7	1,520.0	18,543.6	102.1	1,929.1
	1972..	1,663.0	14,098.0	1,569.3	12,920.2	93.7	1,177.8
	1967..	1,725.9	10,841.5	1,649.6	10,076.8	76.3	764.7
	1963..	1,714.6	9,233.9	1,643.1	8,637.2	71.5	596.8
21	Tobacco manufactures.....1977..	68.6	897.6	60.6	750.7	8.0	146.9
	1972..	74.3	595.7	66.3	502.1	8.0	93.6
	1967..	83.1	451.2	75.1	376.8	8.0	74.4
	1963..	83.8	381.3	77.3	330.5	6.5	50.8
22	Textile mill products.....1977..	908.9	8,434.4	875.7	7,881.4	33.2	553.0
	1972..	983.8	6,413.0	952.6	6,051.0	31.2	362.0
	1967..	954.0	4,610.6	929.0	4,390.9	25.0	219.7
	1963..	883.1	3,538.0	863.2	3,385.0	19.9	152.9
23	Apparel and other textile products.....1977..	1,361.8	10,062.2	1,334.3	9,658.6	27.5	403.6
	1972..	1,394.0	7,478.1	1,368.3	7,212.0	25.7	266.1
	1967..	1,372.9	5,722.2	1,356.7	5,582.2	16.2	140.0
	1963..	1,290.5	4,508.8	1,279.5	4,423.0	11.0	85.8
24	Lumber and wood products.....1977..	706.9	7,694.9	692.4	7,424.7	14.5	270.2
	1972..	703.4	5,131.3	691.0	4,985.6	12.4	145.7
	1967..	561.7	2,872.6	554.0	2,798.9	7.7	73.7
	1963..	568.7	2,385.4	563.1	2,338.7	5.6	46.7
25	Furniture and fixtures.....1977..	472.8	4,588.6	463.8	4,448.5	9.0	140.1
	1972..	468.5	3,286.3	462.0	3,205.4	6.5	80.9
	1967..	430.0	2,305.1	425.3	2,258.3	4.7	46.8
	1963..	381.2	1,767.1	376.5	1,726.7	4.7	40.4
26	Paper and allied products.....1977..	666.3	9,845.3	628.7	8,942.9	37.6	902.4
	1972..	667.8	6,465.5	633.4	5,992.1	34.4	473.4
	1967..	670.7	4,786.7	638.9	4,436.2	31.8	350.5
	1963..	613.8	3,746.4	588.0	3,508.2	25.8	238.2
27	Printing and publishing.....1977..	1,131.1	14,645.9	1,092.2	14,024.5	38.9	621.4
	1972..	1,085.5	10,162.1	1,056.5	9,831.2	29.0	330.9
	1967..	1,052.1	7,323.5	1,031.0	7,151.5	21.1	172.0
	1963..	925.1	5,611.5	913.2	5,514.8	11.8	96.7
28	Chemicals and allied products.....1977..	1,061.6	17,630.7	880.2	13,831.8	181.4	3,798.9
	1972..	995.0	10,908.2	836.5	8,730.5	158.5	2,177.7
	1967..	982.7	7,932.1	841.4	6,443.0	141.3	1,489.1
	1963..	853.1	6,013.6	737.4	4,969.8	115.7	1,043.8
29	Petroleum and coal products.....1977..	212.1	4,258.2	146.8	2,696.2	65.3	1,562.0
	1972..	209.5	2,633.7	139.5	1,637.5	70.0	996.2
	1967..	210.7	1,960.5	141.6	1,216.1	69.1	744.4
	1963..	219.9	1,762.9	153.5	1,133.8	66.4	629.1
30	Rubber and miscellaneous plastics products...1977..	746.5	8,994.3	721.3	8,536.0	25.2	458.3
	1972..	635.1	5,381.9	617.7	5,165.2	17.4	216.7
	1967..	531.0	3,421.8	516.7	3,286.5	14.3	135.3
	1963..	426.7	2,470.8	415.0	2,364.0	11.8	106.7
31	Leather and leather products.....1977..	253.3	1,992.0	242.5	1,859.7	10.8	132.3
	1972..	285.5	1,706.2	273.4	1,589.3	12.1	116.9
	1967..	336.6	1,518.2	328.7	1,458.8	7.9	59.4
	1963..	335.0	1,278.0	327.5	1,227.8	7.6	50.2
32	Stone, clay, and glass products.....1977..	654.8	8,740.3	613.7	7,943.1	41.1	797.2
	1972..	660.7	6,035.1	623.2	5,546.9	37.5	488.2
	1967..	620.6	4,133.8	589.9	3,825.5	30.7	308.3
	1963..	602.8	3,462.5	573.9	3,212.5	28.9	250.0
33	Primary metal products.....1977..	1,160.4	19,783.5	1,113.6	18,752.5	46.8	1,031.0
	1972..	1,185.3	12,784.8	1,142.8	12,166.5	42.5	618.3
	1967..	1,329.1	10,395.7	1,281.0	9,850.9	48.1	544.8
	1963..	1,167.0	8,149.0	1,126.5	7,734.1	40.4	414.8
34	Fabricated metal products.....1977..	1,607.4	22,045.4	1,557.3	21,058.9	50.1	986.5
	1972..	1,533.6	14,346.0	1,493.3	13,802.6	40.3	525.4
	1967..	1,375.1	9,670.0	1,341.8	9,319.5	33.3	350.5
	1963..	1,110.6	6,644.0	1,082.1	6,387.5	28.5	256.5

See footnotes at end of table.

Table 6. **Employment Statistics for Operating Manufacturing Establishments and Administrative Offices and Auxiliaries by Major Industry Group: 1977 and Prior Census Years** – Con.

1977 code	Major industry group and year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries	
		Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
35	Machinery, except electrical.....1977..	2,176.4	32,442.3	2,083.3	30,557.5	93.1	1,884.8
	1972..	1,930.0	20,047.9	1,827.7	18,523.3	102.3	1,524.6
	1967..	1,929.4	14,930.2	1,864.5	14,226.3	64.9	703.9
	1963..	1,520.6	10,146.6	1,459.4	9,571.0	61.2	575.6
36	Electric and electronic equipment.....1977..	1,863.1	25,385.1	1,723.1	22,544.2	140.0	2,840.9
	1972..	1,800.1	17,189.4	1,661.3	15,189.0	138.8	2,000.4
	1967..	1,980.6	14,106.5	1,874.9	12,968.0	105.7	1,138.5
	1963..	1,612.2	10,207.1	1,511.8	9,284.3	100.4	922.5
37	Transportation equipment.....1977..	1,873.7	33,291.4	1,768.2	30,650.5	105.5	2,640.9
	1972..	1,815.2	21,526.6	1,719.0	19,880.0	96.2	1,646.6
	1967..	1,935.5	16,342.4	1,834.1	15,173.7	101.4	1,168.7
	1963..	1,689.7	12,735.6	1,601.2	11,858.2	88.6	877.4
38	Instruments and related products.....1977..	591.9	8,212.0	559.1	7,520.4	32.8	691.6
	1972..	480.8	4,677.9	453.2	4,286.2	27.6	391.7
	1967..	409.6	2,980.8	394.3	2,821.6	15.3	159.2
	1963..	316.4	2,010.4	305.5	1,912.5	11.0	98.0
39, 19	Miscellaneous manufacturing industries and ordnance and accessories.....1977[1].	451.9	4,596.5	440.7	4,406.4	11.2	190.1
	1972[1].	456.0	3,316.3	445.6	3,179.8	10.4	136.5
	1967..	831.6	5,903.5	823.5	5,819.4	8.1	84.1
	1963..	645.8	3,851.3	639.3	3,794.5	9.2	82.3

[1]Excludes ordnance and accessories. In the 1972 SIC revision, major group 19 was eliminated as a separate major industry group and its industries were reclassified to major groups 34, 36, 37, and 38.

Table 7. **Statistics for Operating Manufacturing Establishments by Major Industry Group: 1963 to 1977**

1977 code	Major industry group and year	Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)				
	All operating manufacturing establishments:											
	1977 Census	350,757	113,843	18,515.9	242,031.9	13,691.0	26,686.6	157,163.6	585,165.6	782,417.7	1,358,526.4	47,459.0
	1976 ASM	(NA)	(NA)	17,682.7	212,997.8	13,052.0	25,354.2	137,565.4	511,471.1	681,194.1	1,185,695.3	40,669.4
	1975 ASM	(NA)	(NA)	17,173.8	190,504.1	12,569.1	24,069.4	121,429.2	442,485.1	597,327.2	1,039,377.4	37,262.0
	1974 ASM	(NA)	(NA)	18,712.8	190,574.3	13,970.9	27,239.3	124,983.2	452,477.6	581,710.8	1,017,846.9	35,698.7
	1973 ASM	(NA)	(NA)	18,869.7	178,316.5	14,232.8	28,096.9	118,332.6	405,583.6	478,169.6	875,433.2	26,972.7
	1972 Census	312,671	109,950	18,034.4	160,433.2	13,527.9	26,699.2	105,501.8	353,994.0	407,402.1	756,534.3	24,077.7
	1971 ASM	(NA)	(NA)	17,426.3	144,246.3	12,874.9	25,265.9	93,231.7	314,138.4	356,016.9	670,970.5	20,940.7
	1970 ASM	(NA)	(NA)	18,289.5	141,886.4	13,528.0	26,669.3	91,609.0	300,227.6	336,551.6	634,322.1	22,164.3
	1969 ASM	(NA)	(NA)	19,155.6	142,645.1	14,357.8	28,599.8	93,459.6	304,440.7	341,724.5	642,635.8	22,291.4
	1968 ASM	(NA)	(NA)	18,681.0	132,568.4	14,041.2	28,156.8	87,480.4	285,058.9	320,698.0	603,220.1	20,613.1
	1967 Census	305,680	107,138	18,492.0	123,480.6	13,955.3	27,837.6	81,393.6	261,983.8	298,513.7	557,397.8	21,503.0
	1966 ASM	(NA)	(NA)	18,200.3	117,157.4	13,826.5	28,102.5	78,256.4	250,880.1	293,633.8	538,736.9	20,235.8
	1965 ASM	(NA)	(NA)	17,250.5	106,643.2	13,076.0	26,567.8	71,361.5	226,939.9	268,385.8	492,005.7	16,615.0
	1964 ASM	(NA)	(NA)	16,485.7	98,685.3	12,403.3	25,245.5	65,838.9	206,193.6	244,080.5	447,985.1	13,294.3
	1963 Census	306,617	99,352	16,231.9	93,283.3	12,232.0	24,509.4	62,093.6	192,082.9	(NA)	420,528.1	11,370.0
20	Food and kindred products:											
	1977 Census	26,656	11,038	1,520.0	18,543.6	1,072.0	2,112.4	11,730.7	56,062.2	136,963.7	192,911.6	4,214.9
	1976 ASM	(NA)	(NA)	1,525.2	15,855.7	1,054.8	2,067.1	9,836.8	48,094.7	123,788.0	172,157.6	3,433.5
	1975 ASM	(NA)	(NA)	1,527.3	15,891.2	1,056.8	2,071.4	9,861.2	48,142.0	123,953.5	172,510.4	3,399.4
	1974 ASM	(NA)	(NA)	1,553.0	14,787.9	1,074.8	2,125.8	9,196.3	44,947.5	118,330.6	162,104.2	3,006.1
	1973 ASM	(NA)	(NA)	1,559.9	13,670.3	1,080.5	2,157.8	8,470.5	39,692.7	97,433.6	135,582.5	2,413.8
	1972 Census	28,184	12,326	1,569.4	12,921.8	1,085.4	2,166.9	8,007.4	35,616.6	79,800.0	115,060.3	2,355.1
	1971 ASM	(NA)	(NA)	1,574.1	12,179.9	1,072.7	2,145.4	7,437.5	34,109.8	69,777.5	103,630.9	2,245.0
	1970 ASM	(NA)	(NA)	1,619.0	11,698.1	1,104.7	2,216.2	7,095.5	32,289.0	66,455.8	98,533.0	2,143.8
	1969 ASM	(NA)	(NA)	1,652.5	11,135.3	1,131.7	2,265.0	6,782.1	29,997.0	63,608.4	93,379.9	1,916.6
	1968 ASM	(NA)	(NA)	1,632.4	10,496.6	1,114.3	2,233.5	6,389.8	28,201.7	59,307.0	87,327.4	1,739.7
	1967 Census	32,518	13,514	1,649.6	10,076.8	1,121.7	2,259.4	6,062.6	26,620.9	57,540.6	83,975.2	1,730.1
	1966 ASM	(NA)	(NA)	1,642.7	9,542.1	1,098.0	2,239.5	5,675.9	24,895.9	55,071.5	79,750.9	1,692.0
	1965 ASM	(NA)	(NA)	1,641.2	9,161.7	1,095.2	2,233.4	5,445.5	23,537.5	50,805.5	74,248.4	1,475.5
	1964 ASM	(NA)	(NA)	1,646.2	9,027.8	1,095.4	2,269.7	5,367.0	25,053.2	48,675.0	71,597.5	1,412.9
	1963 Census	37,521	14,113	1,643.1	8,637.2	1,098.1	2,228.0	5,159.4	21,825.5	46,784.4	68,466.5	1,249.2
21	Tobacco manufactures:											
	1977 Census	228	123	60.6	750.7	50.4	92.6	570.7	4,334.1	4,729.8	9,050.6	181.5
	1976 ASM	(NA)	(NA)	66.2	654.6	56.3	104.2	513.0	3,721.6	4,342.3	8,059.9	144.9
	1975 ASM	(NA)	(NA)	66.2	654.6	56.3	104.2	513.0	3,722.0	4,395.8	8,113.4	148.4
	1974 ASM	(NA)	(NA)	67.4	604.4	58.0	106.6	476.6	3,179.1	3,966.0	7,139.9	185.4
	1973 ASM	(NA)	(NA)	68.5	557.3	59.2	110.5	440.2	2,900.1	3,446.6	6,340.7	180.4
	1972 Census	272	154	66.3	502.1	57.4	106.8	400.9	2,637.2	3,281.1	5,920.2	133.2
	1971 ASM	(NA)	(NA)	67.1	470.5	58.5	109.2	376.3	2,559.9	2,973.0	5,527.9	94.4
	1970 ASM	(NA)	(NA)	71.4	447.8	62.7	118.5	361.5	2,489.4	2,859.2	5,349.9	55.9
	1969 ASM	(NA)	(NA)	72.2	411.3	63.2	117.3	328.5	2,221.0	2,766.4	4,992.2	60.6
	1968 ASM	(NA)	(NA)	73.9	396.1	65.2	120.6	323.0	2,140.7	2,800.0	4,937.2	50.4
	1967 Census	329	195	75.1	376.9	66.1	125.5	303.6	2,032.0	2,871.4	4,903.6	53.0
	1966 ASM	(NA)	(NA)	72.4	356.2	64.1	122.3	289.4	1,872.0	2,908.8	4,772.7	58.2
	1965 ASM	(NA)	(NA)	74.6	349.4	66.2	124.9	284.9	1,765.7	2,883.5	4,648.3	59.2
	1964 ASM	(NA)	(NA)	78.8	352.9	70.2	138.3	290.7	1,772.1	2,883.0	4,651.7	58.8
	1963 Census	394	231	77.3	330.5	68.6	132.0	271.5	1,680.6	2,836.5	4,520.0	53.8
22	Textile mill products:											
	1977 Census	7,202	4,131	875.7	7,881.4	764.6	1,523.1	6,202.8	16,104.5	24,753.2	40,550.5	1,223.5
	1976 ASM	(NA)	(NA)	835.0	6,396.9	724.6	1,381.5	4,913.7	12,044.3	18,801.4	31,063.6	996.7
	1975 ASM	(NA)	(NA)	838.4	6,418.2	727.7	1,386.8	4,931.6	12,109.9	18,917.0	31,273.7	1,002.0
	1974 ASM	(NA)	(NA)	932.6	6,683.7	813.0	1,588.8	5,194.5	13,199.0	20,051.6	32,892.2	1,169.9
	1973 ASM	(NA)	(NA)	980.2	6,604.9	862.6	1,750.5	5,237.1	13,016.8	18,011.0	31,072.7	1,092.0
	1972 Census	7,203	4,505	952.7	6,051.9	836.2	1,726.0	4,807.2	11,718.0	16,505.1	28,071.5	1,127.5
	1971 ASM	(NA)	(NA)	906.8	5,330.1	794.4	1,605.2	4,212.1	9,995.2	14,023.5	24,029.8	872.8
	1970 ASM	(NA)	(NA)	924.5	5,082.0	812.9	1,628.6	4,035.6	9,333.8	13,261.2	22,610.6	811.1
	1969 ASM	(NA)	(NA)	968.4	5,159.1	859.2	1,747.6	4,129.0	9,604.7	13,415.9	22,977.7	849.2
	1968 ASM	(NA)	(NA)	959.1	4,849.6	854.4	1,758.1	3,944.7	9,184.4	13,067.0	21,969.2	690.6
	1967 Census	7,080	4,453	929.0	4,390.9	828.2	1,689.7	3,556.5	8,153.2	11,741.4	19,815.2	733.1
	1966 ASM	(NA)	(NA)	927.3	4,243.5	828.0	1,728.2	3,445.9	8,028.4	11,723.7	19,599.9	887.3
	1965 ASM	(NA)	(NA)	893.6	3,911.5	797.9	1,670.8	3,189.2	7,469.4	10,973.6	18,292.5	618.1
	1964 ASM	(NA)	(NA)	875.5	3,646.6	781.7	1,626.4	2,962.9	6,671.8	10,370.9	16,999.0	503.5
	1963 Census	7,104	4,368	863.2	3,385.0	775.3	1,568.1	2,768.4	6,123.0	9,658.7	15,740.5	382.4
23	Apparel and other textile products:											
	1977 Census	26,505	11,932	1,334.3	9,658.6	1,156.6	2,037.6	7,252.8	19,671.3	20,865.5	40,245.1	456.7
	1976 ASM	(NA)	(NA)	1,214.3	7,699.8	1,058.8	1,890.6	5,776.5	14,749.0	16,338.8	31,430.2	380.7
	1975 ASM	(NA)	(NA)	1,212.5	7,688.7	1,056.7	1,885.0	5,762.2	13,381.2	15,959.7	31,083.9	416.2
	1974 ASM	(NA)	(NA)	1,317.3	7,642.1	1,147.2	2,040.5	5,752.6	14,925.8	15,774.2	30,551.0	390.5
	1973 ASM	(NA)	(NA)	1,400.2	7,706.6	1,227.7	2,191.4	5,841.2	14,618.2	15,721.7	30,083.8	387.3
	1972 Census	24,438	12,226	1,368.3	7,212.0	1,198.3	2,161.1	5,461.1	13,487.5	14,532.0	27,809.2	363.5
	1971 ASM	(NA)	(NA)	1,318.8	6,499.8	1,148.9	2,054.4	4,942.7	12,448.4	12,672.4	25,024.5	336.2
	1970 ASM	(NA)	(NA)	1,341.4	6,267.4	1,171.2	2,119.4	4,806.5	11,597.5	11,948.1	23,501.8	299.6
	1969 ASM	(NA)	(NA)	1,381.1	6,402.2	1,209.5	2,202.5	4,944.0	11,571.1	12,692.7	24,283.2	310.8
	1968 ASM	(NA)	(NA)	1,356.0	6,012.3	1,194.0	2,176.8	4,680.6	10,880.9	12,002.5	22,648.9	267.2
	1967 Census	26,393	12,705	1,356.7	5,582.2	1,200.4	2,178.6	4,340.6	10,064.4	11,322.0	21,326.9	208.3
	1966 ASM	(NA)	(NA)	1,359.8	5,207.1	1,202.2	2,213.1	4,037.8	9,180.5	10,943.1	19,971.0	205.8
	1965 ASM	(NA)	(NA)	1,335.2	4,955.2	1,182.7	2,179.3	3,877.5	8,683.6	10,475.8	18,953.2	167.9
	1964 ASM	(NA)	(NA)	1,302.8	4,684.4	1,147.3	2,016.8	3,639.6	8,163.2	9,819.4	17,901.1	122.8
	1963 Census	28,457	13,011	1,279.5	4,423.0	1,132.9	2,052.6	3,482.3	7,861.0	9,327.3	17,096.9	128.6

See footnotes at end of table.

Table 7. **Statistics for Operating Manufacturing Establishments by Major Industry Group: 1963 to 1977**—Con.

1977 code	Major industry group and year	Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)				
24	Lumber and wood products:											
	1977 Census	37,302	7,056	692.4	7,424.7	594.8	1,147.6	5,795.0	16,222.8	23,918.7	39,919.4	1,562.6
	1976 ASM	(NA)	(NA)	588.1	5,231.3	505.9	945.9	4,050.1	10,355.6	14,623.5	25,094,5	1,264.0
	1975 ASM	(NA)	(NA)	591.7	5,268.6	509.0	951.1	4,079.1	10,455.8	14,652.7	25,193.7	1,281.6
	1974 ASM	(NA)	(NA)	674.8	5,490.1	582.5	1,120.7	4,293.5	11,561.2	15,600.5	26,852.6	1,357.2
	1973 ASM	(NA)	(NA)	722.4	5,470.5	628.4	1,213.8	4,311.1	12,357.2	15,843.8	27,980.6	953.3
	1972 Census	33,948	6,867	691.0	4,983.4	601.1	1,167.5	3,932.9	10,309.4	13,592.8	23,816.0	930.9
	1971 ASM	(NA)	(NA)	530.1	3,461.8	465.2	909.3	2,781.9	6,760.9	8,173.4	14,930.8	716.3
	1970 ASM	(NA)	(NA)	541.8	3,240.5	474.5	925.1	2,591.4	5,869.0	7,214.6	13,044.3	534.9
	1969 ASM	(NA)	(NA)	566.2	3,245.9	502.0	986.0	2,629.8	6,330.6	7,760.6	14,003.9	589.7
	1968 ASM	(NA)	(NA)	551.6	3,019.2	491.1	972.8	2,471.1	5,915.5	7,024.4	12,870.1	483.7
	1967 Census	36,795	5,803	554.0	2,789.9	495.7	977.0	2,290.6	4,973.4	6,231.6	11,205.2	426.0
	1966 ASM	(NA)	(NA)	571.8	2,692.5	506.3	1,015.4	2,214.1	4,791.2	5,995.6	10,720.4	485.2
	1965 ASM	(NA)	(NA)	571.8	2,585.7	506.6	1,009.0	2,123.5	4,473.6	5,765.3	10,298.0	482.1
	1964 ASM	(NA)	(NA)	559.2	2,435.7	490.4	985.3	2,047.8	4,364.9	5,567.5	9,881.8	362.0
	1963 Census	36,150	5,765	563.1	2,338.7	497.4	978.7	1,943.3	4,020.6	5,187.0	9,200.0	394.7
25	Furniture and fixtures:											
	1977 Census	10,235	3,588	463.8	4,448.3	383.6	736.4	3,191.8	8,921.7	8,187.4	16,978.0	388.7
	1976 ASM	(NA)	(NA)	395.8	3,310.1	324.9	605.3	2,339.4	6,290.1	5,950.6	12,372.8	251.6
	1975 ASM	(NA)	(NA)	397.8	3,322.6	326.6	611.0	2,349.3	6,310.6	5,984.8	12,420.7	255.0
	1974 ASM	(NA)	(NA)	459.3	3,569.7	380.6	732.1	2,577.3	6,983.4	6,360.4	13,197.3	350.9
	1973 ASM	(NA)	(NA)	478.7	3,532.2	404.3	790.5	2,561.0	6,735.5	5,981.1	12,609.5	343.8
	1972 Census	9,232	3,646	461.6	3,202.1	383.8	755.6	2,321.3	6,089.5	5,327.8	11,308.6	306.2
	1971 ASM	(NA)	(NA)	435.5	2,820.9	360.1	710.5	2,034.0	5,226.9	4,559.4	9,753.5	196.2
	1970 ASM	(NA)	(NA)	436.9	2,691.2	361.4	715.0	1,937.6	4,875.9	4,216.5	9,074.8	231.0
	1969 ASM	(NA)	(NA)	455.5	2,693.0	381.3	761.2	1,968.0	5,030.6	4,278.3	9,215.6	189.5
	1968 ASM	(NA)	(NA)	433.4	2,452.7	364.3	733.3	1,792.8	4,561.6	3,945.2	8,457.7	177.7
	1967 Census	10,008	3,449	425.3	2,258.3	357.5	715.7	1,653.7	4,169.5	3,619.6	7,749.8	198.0
	1966 ASM	(NA)	(NA)	428.6	2,188.1	360.7	735.0	1,621.2	3,989.9	3,609.1	7,537.0	185.6
	1965 ASM	(NA)	(NA)	407.1	2,013.4	341.7	698.8	1,486.6	3,612.4	3,290.2	6,879.7	151.1
	1964 ASM	(NA)	(NA)	388.2	1,844.5	323.8	663.0	1,374.6	3,226.9	3,110.3	6,309.4	108.2
	1963 Census	10,478	3,313	376.5	1,726.7	314.8	639.7	1,290.0	3,068.3	2,836.2	5,884.1	110.2
26	Paper and allied products:											
	1977 Census	6,545	3,999	628.7	8,942.9	486.3	985.9	6,323.1	22,170.9	30,148.2	52,085.7	3,295.0
	1976 ASM	(NA)	(NA)	588.6	6,990.4	453.7	900.6	4,872.7	17,943.7	23,792.0	41,711.5	2,718.0
	1975 ASM	(NA)	(NA)	589.5	6,984.5	454.4	902.5	4,873.4	17,926.8	23,818.6	41,743.1	2,718.3
	1974 ASM	(NA)	(NA)	645.9	6,955.0	507.4	1,032.2	4,995.0	18,957.2	23,161.9	41,665.3	2,208.3
	1973 ASM	(NA)	(NA)	645.4	6,481.9	509.0	1,056.1	4,695.4	15,166.0	17,654.2	32,752.4	1,529.6
	1972 Census	6,038	3,956	633.4	5,992.1	498.8	1,040.5	4,320.2	13,064.1	15,240.5	28,261.9	1,335.3
	1971 ASM	(NA)	(NA)	631.9	5,536.8	494.7	1,024.7	3,950.6	11,682.1	13,840.0	25,458.1	1,197.4
	1970 ASM	(NA)	(NA)	659.0	5,374.1	519.9	1,075.8	3,849.9	11,590.3	13,288.7	24,800.5	1,397.4
	1969 ASM	(NA)	(NA)	669.9	5,200.0	530.9	1,128.0	3,757.3	11,426.4	13,091.3	24,426.5	1,420.7
	1968 ASM	(NA)	(NA)	642.5	4,749.5	510.2	1,086.2	3,436.0	10,465.5	11,902.6	22,307.8	1,238.3
	1967 Census	5,890	3,813	638.9	4,436.2	507.7	1,071.2	3,205.5	9,756.3	11,292.2	20,969.9	1,585.3
	1966 ASM	(NA)	(NA)	633.9	4,235.9	503.2	1,075.6	3,070.8	9,417.2	11,112.8	20,413.7	1,421.9
	1965 ASM	(NA)	(NA)	609.6	3,895.6	484.5	1,029.3	2,829.0	8,464.1	10,170.0	18,578.5	1,185.6
	1964 ASM	(NA)	(NA)	592.9	3,685.6	470.8	1,007.3	2,678.3	7,805.7	9,460.2	17,194.5	901.9
	1963 Census	5,713	3,552	588.0	3,508.2	467.8	988.6	2,551.1	7,395.7	9,001.4	16,357.1	708.5
27	Printing and publishing:											
	1977 Census	49,767	9,132	1,092.2	14,024.5	625.8	1,152.8	7,322.1	31,979.5	17,794.7	49,716.2	1,597.8
	1976 ASM	(NA)	(NA)	1,070.2	11,655.2	626.2	1,138.1	6,219.9	24,641.0	13,538.5	38,125.1	1,174.6
	1975 ASM	(NA)	(NA)	1,072.8	11,675.3	629.8	1,144.6	6,252.8	24,503.1	13,562.5	38,135.3	1,184.4
	1974 ASM	(NA)	(NA)	1,075.7	11,139.3	639.1	1,189.2	6,131.0	23,610.3	12,526.7	35,822.4	1,140.9
	1973 ASM	(NA)	(NA)	1,083.5	10,523.3	649.2	1,203.2	5,830.1	21,871.2	11,071.7	32,854.7	1,089.5
	1972 Census	42,102	8,618	1,056.1	9,826.9	637.4	1,180.7	5,459.3	20,197.1	10,043.3	30,132.4	1,047.2
	1971 ASM	(NA)	(NA)	1,049.1	8,975.9	626.3	1,192.0	5,010.1	18,086.4	8,861.4	26,887.3	941.9
	1970 ASM	(NA)	(NA)	1,077.2	8,682.2	652.9	1,265.1	4,903.3	17,232.4	8,557.1	25,756.5	872.8
	1969 ASM	(NA)	(NA)	1,090.7	8,337.7	666.5	1,261.6	4,701.8	16,793.4	8,540.9	25,332.7	853.3
	1968 ASM	(NA)	(NA)	1,040.0	7,627.0	635.9	1,204.1	4,279.7	15,328.7	7,907.1	23,190.4	756.7
	1967 Census	37,989	8,035	1,031.0	7,151.5	631.6	1,196.1	4,011.3	14,355.1	7,518.5	21,738.4	788.1
	1966 ASM	(NA)	(NA)	1,017.6	6,751.0	619.1	1,208.7	3,831.5	13,264.5	7,114.9	20,201.7	708.5
	1965 ASM	(NA)	(NA)	982.4	6,269.2	597.3	1,156.3	3,574.9	12,098.8	6,599.6	18,620.3	542.7
	1964 ASM	(NA)	(NA)	935.0	5,847.6	569.7	1,123.6	3,349.5	11,192.1	6,185.5	17,337.1	464.5
	1963 Census	38,090	7,215	913.2	5,514.8	559.8	1,083.2	3,191.0	10,476.4	5,777.3	16,165.7	463.9
28	Chemicals and allied products:											
	1977 Census	12,173	4,602	880.2	13,839.3	543.8	1,089.9	7,446.2	56,720.6	62,293.8	118,153.6	8,198.9
	1976 ASM	(NA)	(NA)	842.0	11,227.0	509.8	1,000.8	5,857.7	44,976.3	45,150.6	89,721.2	6,353.1
	1975 ASM	(NA)	(NA)	848.1	11,303.8	511.2	1,003.4	5,870.5	45,116.0	45,141.8	89,847.8	6,382.4
	1974 ASM	(NA)	(NA)	865.5	10,547.3	542.0	1,084.7	5,697.0	44,488.1	41,467.3	83,801.0	4,957.2
	1973 ASM	(NA)	(NA)	852.4	9,440.3	535.1	1,075.3	5,149.3	36,239.4	28,595.7	65,008.0	3,186.2
	1972 Census	11,425	4,431	836.5	8,730.5	525.0	1,053.7	4,753.9	32,413.9	25,085.5	57,349.6	2,728.4
	1971 ASM	(NA)	(NA)	848.9	8,259.9	528.6	1,060.5	4,451.2	29,431.5	22,489.8	51,873.1	2,937.7
	1970 ASM	(NA)	(NA)	881.0	8,003.8	555.7	1,120.6	4,327.0	27,929.6	21,781.8	49,355.2	3,110.7
	1969 ASM	(NA)	(NA)	882.6	7,602.5	565.6	1,150.9	4,181.1	27,318.9	21,281.1	48,269.8	2,843.4
	1968 ASM	(NA)	(NA)	856.3	6,938.5	550.8	1,116.0	3,845.4	25,810.4	19,984.0	45,622.4	2,788.7
	1967 Census	11,799	4,348	841.4	6,443.0	541.4	1,086.1	3,555.2	23,550.1	18,821.2	42,148.3	2,936.1
	1966 ASM	(NA)	(NA)	822.4	6,129.3	528.5	1,077.4	3,400.2	22,655.6	18,516.8	40,780.4	2,898.6
	1965 ASM	(NA)	(NA)	780.3	5,594.4	502.4	1,022.5	3,104.8	20,955.6	16,804.5	37,478.8	2,482.0
	1964 ASM	(NA)	(NA)	749.2	5,244.3	479.9	986.0	2,927.5	19,165.8	15,218.4	34,268.1	1,862.2
	1963 Census	11,996	3,985	737.4	4,969.8	474.1	963.4	2,779.9	17,586.1	14,255.1	31,772.7	1,545.7

See footnotes at end of table.

Table 7. **Statistics for Operating Manufacturing Establishments by Major Industry Group: 1963 to 1977**—Con.

1977 code	Major industry group and year	Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)				
29	Petroleum and coal products:											
	1977 Census	2,206	773	146.8	2,696.2	101.1	207.9	1,765.4	16,377.6	81,655.4	97,452.7	2,261.3
	1976 ASM	(NA)	(NA)	141.1	2,147.4	97.9	197.4	1,357.3	10,499.5	59,198.4	69,484.6	2,417.8
	1975 ASM	(NA)	(NA)	141.1	2,143.6	98.0	197.6	1,355.8	10,090.2	59,099.4	68,969.2	2,328.4
	1974 ASM	(NA)	(NA)	145.6	1,919.9	101.4	207.9	1,240.9	9,951.1	50,140.5	58,875.8	1,845.1
	1973 ASM	(NA)	(NA)	136.5	1,716.0	95.8	193.6	1,110.4	7,740.2	27,421.1	34,899.0	1,107.0
	1972 Census	2,016	720	139.5	1,637.5	97.9	200.5	1,064.0	5,793.1	22,762.5	28,694.7	1,154.2
	1971 ASM	(NA)	(NA)	141.3	1,564.1	97.1	197.6	993.5	5,616.8	21,460.7	26,935.2	1,304.0
	1970 ASM	(NA)	(NA)	143.8	1,487.2	99.6	204.9	941.6	5,477.9	19,493.5	24,882.9	1,217.6
	1969 ASM	(NA)	(NA)	141.9	1,368.7	98.1	196.7	857.1	5,703.3	18,720.5	24,392.9	1,071.6
	1968 ASM	(NA)	(NA)	141.0	1,284.3	98.4	201.3	825.1	5,567.1	17,664.3	23,190.0	1,064.9
	1967 Census	1,880	704	141.7	1,216.2	99.2	202.1	786.3	5,425.9	16,748.4	22,043.4	999.3
	1966 ASM	(NA)	(NA)	139.8	1,128.0	99.1	198.0	741.7	4,753.8	15,652.5	20,419.7	668.7
	1965 ASM	(NA)	(NA)	142.4	1,107.4	101.6	203.7	732.6	4,131.3	14,973.6	19,111.4	603.5
	1964 ASM	(NA)	(NA)	148.4	1,127.1	105.4	213.6	743.2	3,780.4	14,570.2	18,357.5	412.6
	1963 Census	1,839	689	153.5	1,133.9	109.4	216.7	745.1	3,713.2	14,291.5	17,994.7	413.7
30	Rubber and miscellaneous plastics products:											
	1977 Census	11,943	5,294	721.3	8,536.0	563.7	1,110.6	5,841.6	19,740.0	20,217.8	39,552.8	1,645.3
	1976 ASM	(NA)	(NA)	585.0	5,922.6	451.0	873.1	3,984.6	13,599.3	13,610.2	27,191.2	1,139.9
	1975 ASM	(NA)	(NA)	587.4	5,944.9	453.0	877.8	4,002.1	13,674.2	13,688.0	27,316.5	1,152.5
	1974 ASM	(NA)	(NA)	661.3	6,203.1	522.6	1,024.9	4,303.3	14,826.2	13,628.2	27,902.2	1,457.0
	1973 ASM	(NA)	(NA)	672.0	5,812.3	532.0	1,041.7	4,080.1	13,439.6	11,058.3	24,383.6	1,305.0
	1972 Census	9,237	4,188	617.7	5,165.2	486.8	968.3	3,605.0	11,653.3	9,466.1	20,923.7	1,059.6
	1971 ASM	(NA)	(NA)	543.5	4,285.7	422.2	844.4	2,968.4	9,521.2	7,541.6	17,043.7	723.8
	1970 ASM	(NA)	(NA)	545.8	3,998.6	426.9	849.2	2,759.1	8,502.7	7,038.3	15,471.4	828.4
	1969 ASM	(NA)	(NA)	567.4	4,026.0	450.8	915.5	2,846.4	8,431.1	7,324.6	15,637.4	856.6
	1968 ASM	(NA)	(NA)	541.9	3,705.4	430.1	875.4	2,624.1	7,730.4	6,799.1	14,377.4	760.0
	1967 Census	6,456	3,122	516.7	3,286.5	410.1	815.5	2,312.5	6,799.5	5,974.4	12,758.6	677.2
	1966 ASM	(NA)	(NA)	491.8	3,072.0	390.6	799.9	2,174.3	6,277.1	5,825.5	11,976.0	599.9
	1965 ASM	(NA)	(NA)	465.2	2,813.9	368.8	747.1	1,985.3	5,681.4	5,276.5	10,863.2	516.0
	1964 ASM	(NA)	(NA)	430.1	2,546.9	340.7	695.9	1,798.5	4,990.9	4,789.3	9,723.2	399.4
	1963 Census	5,728	2,449	415.0	2,364.0	328.8	658.5	1,672.4	4,654.0	4,480.1	9,116.2	343.5
31	Leather and leather products:											
	1977 Census	3,075	1,486	242.5	1,859.7	211.5	381.9	1,408.1	3,718.8	3,932.6	7,607.4	96.2
	1976 ASM	(NA)	(NA)	239.7	1,651.4	208.9	377.5	1,249.9	3,187.2	3,111.2	6,323.0	77.5
	1975 ASM	(NA)	(NA)	240.0	1,652.4	209.3	377.9	1,251.5	3,187.2	3,117.1	6,333.4	78.4
	1974 ASM	(NA)	(NA)	255.8	1,604.1	223.1	401.8	1,228.8	3,120.2	3,099.2	6,176.5	76.1
	1973 ASM	(NA)	(NA)	267.6	1,595.4	234.7	434.4	1,230.2	2,962.0	3,075.9	6,022.5	80.9
	1972 Census	3,201	1,657	273.4	1,589.3	240.4	449.1	1,230.8	2,917.2	2,895.4	5,769.5	74.5
	1971 ASM	(NA)	(NA)	273.8	1,500.6	240.4	441.8	1,155.0	2,760.8	2,437.4	5,218.4	69.2
	1970 ASM	(NA)	(NA)	295.8	1,526.0	261.0	479.6	1,183.7	2,819.7	2,468.6	5,288.4	62.8
	1969 ASM	(NA)	(NA)	326.7	1,592.9	290.7	537.9	1,252.3	2,898.0	2,594.1	5,463.9	64.2
	1968 ASM	(NA)	(NA)	334.1	1,582.1	298.2	561.4	1,252.7	2,911.9	2,604.1	5,485.5	78.8
	1967 Census	3,685	1,967	328.7	1,458.8	293.3	549.2	1,147.0	2,626.5	2,540.9	5,169.0	62.1
	1966 ASM	(NA)	(NA)	341.1	1,426.0	303.1	574.4	1,125.3	2,480.8	2,590.3	5,032.6	61.[illegible]
	1965 ASM	(NA)	(NA)	335.7	1,348.3	299.2	562.7	1,065.3	2,322.0	2,342.0	4,640.5	46.
	1964 ASM	(NA)	(NA)	326.7	1,285.9	291.9	553.4	1,022.1	2,264.7	2,173.3	4,414.4	37.
	1963 Census	4,047	2,073	327.5	1,227.8	292.3	543.1	982.1	2,078.6	2,127.8	4,209.6	34.6
32	Stone, clay, and glass products:											
	1977 Census	17,744	5,201	613.7	7,943.1	484.4	960.7	5,766.6	19,129.6	16,444.8	35,476.6	1,881.[illegible]
	1976 ASM	(NA)	(NA)	588.8	6,389.7	461.2	901.0	4,596.2	14,848.7	12,301.0	27,073.9	1,581.[illegible]
	1975 ASM	(NA)	(NA)	591.6	6,402.6	464.0	905.9	4,601.1	15,337.6	12,339.2	27,595.1	1,601.[illegible]
	1974 ASM	(NA)	(NA)	637.0	6,414.2	507.9	1,012.5	4,719.8	14,566.0	12,041.2	26,260.1	1,583.6
	1973 ASM	(NA)	(NA)	643.8	6,079.4	510.8	1,027.7	4,456.7	13,801.0	10,179.8	23,861.7	1,391.4
	1972 Census	16,015	5,301	623.2	5,546.9	492.6	998.1	4,037.3	12,586.5	9,062.6	21,537.5	1,195.5
	1971 ASM	(NA)	(NA)	582.6	4,801.6	462.4	927.8	3,503.4	10,757.8	7,816.6	18,534.7	927.8
	1970 ASM	(NA)	(NA)	591.3	4,530.5	470.2	950.6	3,320.7	9,785.8	7,048.6	16,761.1	919.8
	1969 ASM	(NA)	(NA)	608.3	4,440.4	484.0	987.4	3,257.0	9,851.1	7,054.1	16,815.8	907
	1968 ASM	(NA)	(NA)	590.1	4,064.6	468.9	950.7	2,971.4	9,211.7	6,609.3	15,783.3	7[illegible]
	1967 Census	15,580	4,911	589.9	3,825.5	469.3	948.4	2,784.1	8,333.4	6,146.0	14,449.4	8
	1966 ASM	(NA)	(NA)	616.0	3,837.5	488.0	998.9	2,811.7	8,494.6	6,262.5	14,629.4	9
	1965 ASM	(NA)	(NA)	604.6	3,602.1	479.9	981.1	2,640.2	7,995.9	5,989.3	13,938.7	7
	1964 ASM	(NA)	(NA)	580.8	3,369.0	458.5	949.2	2,446.9	7,492.7	5,541.1	12,950.2	6
	1963 Census	15,838	4,655	573.9	3,212.5	455.8	928.9	2,350.2	7,044.0	5,287.8	12,289.1	6[illegible]
33	Primary metal products:											
	1977 Census	7,375	3,980	1,113.6	18,745.0	885.3	1,744.0	14,065.2	37,568.2	66,171.3	103,179.4	4,49[illegible]
	1976 ASM	(NA)	(NA)	1,088.9	14,993.7	856.0	1,637.5	11,029.8	30,366.8	51,949.8	80,817.0	4,16[illegible]
	1975 ASM	(NA)	(NA)	1,090.6	15,015.0	856.3	1,638.5	11,047.1	30,554.4	52,155.2	81,315.3	4,18.
	1974 ASM	(NA)	(NA)	1,247.8	15,900.2	1,001.0	1,995.0	12,102.4	37,297.3	58,720.5	95,618.0	3,751.
	1973 ASM	(NA)	(NA)	1,221.7	14,147.9	995.5	2,027.7	10,873.1	28,614.1	44,007.1	72,727.2	2,334.[illegible]
	1972 Census	6,792	3,901	1,142.8	12,166.5	922.7	1,849.9	9,202.4	23,258.1	35,708.9	58,429.7	2,160.6
	1971 ASM	(NA)	(NA)	1,169.3	11,204.6	931.4	1,831.8	8,300.6	21,119.8	31,867.5	53,067.3	2,197.5
	1970 ASM	(NA)	(NA)	1,261.2	11,251.9	1,013.5	2,009.0	8,410.2	21,444.6	32,629.8	53,510.7	2,736.7
	1969 ASM	(NA)	(NA)	1,310.5	11,447.4	1,064.3	2,171.5	8,687.7	22,729.0	32,956.6	55,257.9	2,815.9
	1968 ASM	(NA)	(NA)	1,274.7	10,479.2	1,033.4	2,090.4	7,922.2	20,973.7	29,346.3	50,317.0	3,102.3
	1967 Census	6,837	4,082	1,281.0	9,850.9	1,041.5	2,088.7	7,457.3	19,978.2	27,219.9	46,730.9	3,134.1
	1966 ASM	(NA)	(NA)	1,296.2	9,911.0	1,065.5	2,191.3	7,648.6	20,898.8	29,130.0	49,528.4	2,765.1
	1965 ASM	(NA)	(NA)	1,250.3	9,237.6	1,025.6	2,105.4	7,176.4	18,924.4	26,509.6	45,302.8	2,257
	1964 ASM	(NA)	(NA)	1,180.5	8,487.9	973.4	1,994.4	6,577.6	16,692.4	23,526.9	40,032.4	1,88[illegible]
	1963 Census	6,513	3,583	1,126.5	7,734.1	922.2	1,839.0	5,933.6	15,261.1	20,474.2	35,621.5	1,44[illegible]

See footnotes at end of table.

Table 7. **Statistics for Operating Manufacturing Establishments by Major Industry Group: 1963 to 1977**—Con.

1977 code	Major industry group and year	Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)				
34	Fabricated metal products:											
	1977 Census	33,712	12,739	1,555.7	21,035.9	1,191.6	2,373.8	14,428.8	45,511.5	45,384.8	90,023.5	2,606.1
	1976 ASM	(NA)	(NA)	1,416.9	16,334.3	1,070.2	2,085.4	11,029.5	34,203.0	34,465.7	68,738.7	2,074.2
	1975 ASM	(NA)	(NA)	1,419.9	16,359.0	1,072.7	2,091.2	11,048.4	34,095.8	34,527.8	68,823.6	2,077.7
	1974 ASM	(NA)	(NA)	1,574.7	16,570.0	1,207.7	2,415.0	11,469.2	35,221.0	33,858.1	67,569.9	1,981.2
	1973 ASM	(NA)	(NA)	1,566.7	15,374.0	1,212.5	2,439.9	10,742.3	30,573.4	28,520.7	58,556.3	1,734.7
	1972 Census	29,525	11,676	1,493.3	13,820.6	1,148.0	2,302.7	9,544.4	26,945.8	25,197.5	51,739.3	1,323.2
	1971 ASM	(NA)	(NA)	1,279.2	11,022.1	980.9	1,971.4	7,577.5	21,966.3	20,051.9	42,026.4	1,042.5
	1970 ASM	(NA)	(NA)	1,333.5	10,780.0	1,025.2	2,080.3	7,430.1	20,887.8	19,074.9	39,620.9	1,139.7
	1969 ASM	(NA)	(NA)	1,399.1	10,773.1	1,097.1	2,227.5	7,550.7	20,739.5	19,045.3	39,597.1	1,286.7
	1968 ASM	(NA)	(NA)	1,357.8	10,038.1	1,067.7	2,192.6	7,061.7	19,504.5	17,957.0	37,340.5	1,041.2
	1967 Census	27,418	10,741	1,341.8	9,319.5	1,056.9	2,160.9	6,541.6	18,042.6	16,704.9	34,577.8	1,118.4
	1966 ASM	(NA)	(NA)	1,252.3	8,244.9	984.1	2,038.2	5,762.4	15,791.9	15,306.2	30,904.6	952.5
	1965 ASM	(NA)	(NA)	1,173.3	7,413.6	914.5	1,901.4	5,181.5	14,171.3	13,687.3	27,536.1	805.7
	1964 ASM	(NA)	(NA)	1,115.9	6,852.9	869.5	1,794.8	4,802.7	12,692.9	12,375.5	24,895.6	726.8
	1963 Census	27,075	9,210	1,082.1	6,387.5	843.8	1,721.0	4,483.7	11,791.1	11,397.9	23,065.2	570.1
35	Machinery, except electrical:											
	1977 Census	48,200	12,446	2,083.3	30,557.5	1,413.8	2,803.0	18,298.4	67,222.5	56,531.6	122,187.7	4,402.4
	1976 ASM	(NA)	(NA)	1,966.6	24,555.1	1,340.7	2,644.6	14,778.3	51,044.4	44,581.0	95,752.5	3,354.7
	1975 ASM	(NA)	(NA)	1,979.2	24,702.0	1,349.8	2,661.1	14,853.8	51,471.0	44,821.2	96,400.3	3,369.4
	1974 ASM	(NA)	(NA)	2,126.1	24,713.4	1,496.7	3,024.8	15,431.1	52,494.9	43,548.6	92,487.2	3,312.2
	1973 ASM	(NA)	(NA)	1,993.8	21,598.0	1,400.2	2,842.7	13,493.7	44,559.0	35,566.1	78,092.7	2,344.0
	1972 Census	40,792	10,599	1,827.7	18,523.3	1,266.9	2,538.3	11,358.6	37,562.9	29,204.1	65,820.7	1,906.3
	1971 ASM	(NA)	(NA)	1,743.5	16,235.0	1,187.2	2,334.8	9,740.0	30,680.9	24,536.7	55,559.9	1,696.0
	1970 ASM	(NA)	(NA)	1,890.6	16,637.8	1,306.4	2,624.2	10,222.4	31,814.3	24,875.0	56,080.6	1,854.9
	1969 ASM	(NA)	(NA)	1,943.7	16,441.7	1,377.2	2,829.7	10,401.8	32,009.2	24,705.9	55,767.7	1,866.3
	1968 ASM	(NA)	(NA)	1,848.8	14,754.9	1,320.4	2,700.8	9,427.8	28,777.8	22,071.3	50,605.5	1,743.1
	1967 Census	37,892	10,629	1,864.5	14,226.3	1,349.0	2,785.0	9,236.1	27,836.4	21,231.6	48,477.2	1,868.1
	1966 ASM	(NA)	(NA)	1,803.7	13,469.8	1,309.9	2,795.8	8,843.0	27,034.9	20,769.7	46,621.9	1,658.3
	1965 ASM	(NA)	(NA)	1,652.8	11,741.8	1,195.9	2,515.1	7,659.6	22,762.0	17,306.4	39,241.1	1,228.4
	1964 ASM	(NA)	(NA)	1,538.6	10,606.9	1,108.7	2,327.3	6,982.3	20,302.4	15,304.5	35,060.1	939.4
	1963 Census	33,703	8,426	1,459.4	9,571.0	1,045.1	2,151.1	6,209.3	17,310.6	13,254.2	30,363.1	783.1
36	Electric and electronic equipment:											
	1977 Census	14,973	6,338	1,723.1	22,544.2	1,191.4	2,309.2	12,951.6	50,365.7	39,369.5	88,433.1	2,866.5
	1976 ASM	(NA)	(NA)	1,523.6	17,401.2	1,019.9	1,949.6	9,631.9	34,845.0	28,677.8	64,213.9	1,876.8
	1975 ASM	(NA)	(NA)	1,520.9	17,392.0	1,017.8	1,946.5	9,627.8	34,804.4	28,689.6	64,197.9	1,865.8
	1974 ASM	(NA)	(NA)	1,775.5	18,092.8	1,242.3	2,389.1	10,508.7	36,901.5	30,106.0	65,804.1	2,426.3
	1973 ASM	(NA)	(NA)	1,797.0	17,150.7	1,277.5	2,504.9	10,190.3	34,984.2	27,166.5	60,864.8	1,996.1
	1972 Census	12,274	5,736	1,662.2	15,200.1	1,160.8	2,275.0	8,822.6	30,583.6	23,315.6	53,433.0	1,418.8
	1971 ASM	(NA)	(NA)	1,659.0	14,436.7	1,119.4	2,182.7	8,040.0	27,874.2	20,923.0	49,168.1	1,398.6
	1970 ASM	(NA)	(NA)	1,831.6	14,827.2	1,237.4	2,417.4	8,320.6	27,773.5	21,003.7	48,420.8	1,519.7
	1969 ASM	(NA)	(NA)	1,917.8	14,829.7	1,324.0	2,618.5	8,445.7	28,210.9	21,115.9	48,913.7	1,640.7
	1968 ASM	(NA)	(NA)	1,882.7	13,807.8	1,304.1	2,596.5	7,986.0	26,425.0	20,321.6	46,470.4	1,477.6
	1967 Census	10,706	5,572	1,874.9	12,968.0	1,323.4	2,611.3	7,607.0	24,487.3	19,437.3	43,361.0	1,537.2
	1966 ASM	(NA)	(NA)	1,811.0	11,988.1	1,318.5	2,641.9	7,259.3	23,481.7	18,472.6	40,842.6	1,388.3
	1965 ASM	(NA)	(NA)	1,604.8	10,449.5	1,138.6	2,313.1	6,231.6	20,161.7	15,430.7	35,127.3	1,045.9
	1964 ASM	(NA)	(NA)	1,483.8	9,407.3	1,029.9	2,070.2	5,568.9	17,765.4	13,234.0	30,784.7	761.3
	1963 Census	9,948	4,722	1,511.8	9,284.3	1,049.4	2,090.5	5,405.8	17,010.7	12,942.6	29,840.2	701.9
37	Transportation equipment:											
	1977 Census	10,176	3,653	1,768.2	30,673.5	1,284.4	2,612.7	20,314.3	64,291.1	103,489.6	166,954.0	4,670.9
	1976 ASM	(NA)	(NA)	1,604.6	22,772.0	1,137.0	2,216.8	14,405.4	45,337.3	68,677.6	113,500.6	2,762.1
	1975 ASM	(NA)	(NA)	1,604.4	22,770.3	1,137.9	2,217.3	14,418.8	45,155.2	68,591.1	113,218.3	2,794.3
	1974 ASM	(NA)	(NA)	1,738.0	22,609.2	1,249.6	2,469.9	14,554.1	44,973.3	64,875.4	108,245.2	3,176.1
	1973 ASM	(NA)	(NA)	1,835.7	22,571.9	1,340.6	2,732.4	14,833.8	45,684.9	65,555.6	110,710.7	2,530.1
	1972 Census	8,802	3,618	1,719.0	19,880.0	1,246.2	2,527.4	12,848.6	39,799.4	55,767.8	94,704.9	2,660.2
	1971 ASM	(NA)	(NA)	1,620.8	16,697.8	1,186.0	2,370.8	11,047.9	34,845.0	51,251.9	86,920.4	1,258.2
	1970 ASM	(NA)	(NA)	1,688.6	16,072.6	1,200.8	2,393.3	10,230.0	29,990.2	42,293.2	72,589.5	1,611.6
	1969 ASM	(NA)	(NA)	1,919.7	17,650.7	1,398.1	2,823.0	11,454.6	34,053.2	48,012.3	81,786.0	1,942.6
	1968 ASM	(NA)	(NA)	1,887.6	16,811.2	1,376.5	2,893.3	11,135.4	32,866.2	46,997.1	79,494.3	1,599.0
	1967 Census	7,483	3,354	1,834.1	15,173.7	1,336.5	2,745.6	9,918.2	28,173.9	40,419.9	68,512.3	1,822.4
	1966 ASM	(NA)	(NA)	1,829.7	14,852.4	1,354.5	2,843.8	9,857.8	28,277.1	41,936.1	69,422.7	1,879.8
	1965 ASM	(NA)	(NA)	1,683.8	13,273.3	1,240.7	2,639.8	8,813.2	26,330.9	39,901.2	65,842.7	1,506.1
	1964 ASM	(NA)	(NA)	1,563.2	11,887.2	1,119.8	2,367.7	7,771.5	22,733.9	33,189.7	55,688.9	1,176.6
	1963 Census	7,180	2,852	1,551.2	11,406.0	1,108.2	2,355.7	7,388.9	21,854.0	31,790.0	53,581.0	981.0
38	Instruments and related products:											
	1977 Census	7,481	2,538	559.1	7,520.4	347.2	677.9	3,743.2	18,762.0	10,503.9	28,897.8	938.9
	1976 ASM	(NA)	(NA)	499.8	5,828.7	308.8	587.6	2,818.1	14,157.6	7,721.7	22,058.7	794.3
	1975 ASM	(NA)	(NA)	502.0	5,854.2	310.4	590.8	2,835.4	14,116.2	7,754.9	22,071.8	756.7
	1974 ASM	(NA)	(NA)	524.1	5,560.3	338.3	653.0	2,851.3	13,627.4	7,698.1	20,864.8	808.0
	1973 ASM	(NA)	(NA)	485.4	4,800.5	316.0	613.9	2,490.0	12,224.3	5,977.3	17,793.7	635.6
	1972 Census	5,987	2,070	454.1	4,296.5	291.9	569.6	2,237.1	10,583.7	5,071.2	15,565.7	480.4
	1971 ASM	(NA)	(NA)	381.7	3,345.7	244.9	465.1	1,732.9	8,385.9	3,956.8	12,275.8	392.7
	1970 ASM	(NA)	(NA)	404.6	3,357.5	261.5	502.1	1,746.3	7,905.4	3,943.6	11,782.5	435.5
	1969 ASM	(NA)	(NA)	413.1	3,271.8	271.0	535.2	1,757.2	7,676.0	4,119.9	11,686.3	388.3
	1968 ASM	(NA)	(NA)	400.0	3,001.5	265.5	524.7	1,625.0	7,174.1	3,780.7	10,886.9	397.2
	1967 Census	4,453	1,614	394.3	2,821.6	265.9	530.2	1,569.0	6,418.4	3,591.8	9,907.2	392.2
	1966 ASM	(NA)	(NA)	362.0	2,509.3	248.8	494.1	1,426.0	5,833.3	3,210.9	8,832.7	307.0
	1965 ASM	(NA)	(NA)	328.7	2,227.9	225.9	451.5	1,275.0	5,002.2	2,742.3	7,621.2	232.2
	1964 ASM	(NA)	(NA)	308.0	2,013.6	209.1	420.5	1,148.5	4,314.3	2,378.1	6,603.2	192.1
	1963 Census	3,949	1,343	305.5	1,912.5	208.4	416.6	1,100.7	3,992.1	2,171.1	6,117.8	191.9

See footnotes at end of table.

Table 7. **Statistics for Operating Manufacturing Establishments by Major Industry Group: 1963 to 1977**—Con.

1977 code	Major industry group and year	Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)				
39	Miscellaneous manufacturing industry and ordnance and accessories:											
	1977 Census[1]	17,259	3,794	440.7	4,406.4	338.7	626.7	2,745.3	10,291.0	9,061.4	19,150.7	473.6
	1976 ASM[1]	(NA)	(NA)	393.4	3,487.0	302.5	564.8	2,168.4	7,580.0	6,707.1	14,486.9	301.9
	1975 ASM[1]	(NA)	(NA)	394.9	3,499.7	303.2	566.8	2,173.5	7,695.9	6,742.5	14,647.2	348.6
	1974 ASM[1]	(NA)	(NA)	435.0	3,477.1	336.9	636.5	2,253.7	7,666.5	6,625.0	14,043.7	362.3
	1973 ASM[1]	(NA)	(NA)	447.1	3,351.0	351.8	660.3	2,187.5	7,166.3	5,969.2	13,046.1	341.2
	1972 Census[1]	15,188	3,755	446.1	3,184.5	350.2	661.5	2,086.7	6,777.0	5,558.8	12,185.9	317.1
	1971 ASM	(NA)	(NA)	411.3	2,739.9	319.1	604.4	1,773.2	5,707.3	4,470.2	10,122.0	262.5
	1970 ASM	(NA)	(NA)	429.3	2,684.9	337.0	643.3	1,752.3	5,433.1	4,348.3	9,743.4	253.2
	1969 ASM	(NA)	(NA)	448.5	2,664.8	362.5	689.7	1,796.4	5,296.3	4,426.0	9,665.4	240.0
	1968 ASM	(NA)	(NA)	430.7	2,461.3	348.8	669.2	1,666.7	4,950.9	4,074.7	8,945.0	209.0
	1967 Census	14,072	3,845	423.1	2,291.0	344.4	662.0	1,552.5	4,599.4	3,773.4	8,310.7	213.5
	1966 ASM	(NA)	(NA)	418.2	2,150.3	340.2	666.3	1,463.3	4,338.3	3,778.8	7,971.4	181.3
	1965 ASM	(NA)	(NA)	416.0	2,042.2	339.6	661.1	1,393.3	4,092.3	3,510.7	7,541.4	165.9
	1964 ASM	(NA)	(NA)	393.7	1,924.0	315.0	631.4	1,313.7	3,762.6	3,151.5	6,889.0	137.4
	1963 Census	14,723	3,618	390.9	1,812.1	315.0	613.2	1,253.5	3,562.4	2,965.0	6,494.8	131.0

(NA) Not available.

[1]Excludes ordnance and accessories. In the 1972 SIC revision, major group 19 was eliminated as a separate major industry group and its industries were reclassified to major groups 34, 36, 37, and 38.

Table 8. Summary Statistics by Major Industry Group: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix A)

Item	All establishments[1]	Major industry groups					
		20	21	22	23	24	25
All industries.....number..	359,928	26,656	228	7,202	26,505	37,302	10,235
With 1 to 19 employees.....do..	241,229	15,618	105	3,071	14,573	30,246	6,647
With 20 to 99 employees.....do..	81,118	7,235	38	2,108	8,414	5,481	2,500
With 100 employees or more.....do..	37,581	3,803	85	2,023	3,518	1,575	1,088
All employees, average for year.....1,000..	19,590.1	1,520.0	60.6	875.7	1,334.3	692.4	463.8
Payroll for year, all employees.....mil. dol..	264,013.1	18,543.6	750.7	7,881.4	9,658.6	7,424.7	4,448.3
Production workers:							
Average for year.....1,000..	13,691.0	1,072.0	50.4	764.6	1,156.6	594.8	383.6
March.....do..	13,354.1	1,008.1	50.4	757.5	1,145.3	555.7	374.1
May.....do..	13,627.1	1,029.3	45.0	768.3	1,161.6	590.1	379.0
August.....do..	13,842.3	1,167.4	52.5	768.9	1,157.0	623.8	384.6
November.....do..	13,900.0	1,080.4	53.8	763.5	1,160.3	605.1	395.9
Hours.....millions..	26,686.7	2,112.4	92.6	1,523.1	2,037.6	1,147.6	736.4
January to March.....do..	6,445.7	491.9	22.9	376.7	499.4	264.9	175.8
April to June.....do..	6,762.2	510.8	20.8	395.6	523.1	290.9	186.6
July to Spetember.....do..	6,693.2	571.9	23.7	369.9	503.3	300.1	183.4
October to December.....do..	6,785.4	537.7	25.2	380.9	511.9	291.7	190.6
Wages.....mil. dol..	157,163.7	11,730.7	570.7	6,202.8	7,252.8	5,795.0	3,191.8
Cost of materials, etc.[2].....do..	782,417.7	136,963.7	4,729.8	24,753.2	20,865.5	23,918.7	8,187.4
Materials, parts, containers, etc., consumed.....do..	689,922.1	121,610.4	4,289.4	22,253.7	16,083.0	20,583.0	7,421.9
Resales.....do..	40,146.2	12,455.2	365.5	418.0	705.9	1,390.0	457.5
Fuels consumed.....do..	18,910.3	1,495.4	31.1	495.1	86.1	368.5	76.9
Purchased electric energy.....do..	14,594.4	1,063.0	32.8	649.2	204.1	370.1	123.8
Contract work.....do..	18,844.9	339.7	10.9	937.1	3,786.4	1,207.1	107.3
Value of shipments, including resales[2].....do..	1,358,526.4	192,911.6	9,050.6	40,550.5	40,245.1	39,919.4	16,978.0
Value of resales.....do..	49,804.6	14,627.6	347.2	507.2	930.3	1,488.0	574.7
Value added by manufacture.....do..	585,165.6	56,062.2	4,334.1	16,104.5	19,671.3	16,222.8	8,921.7
Manufacturers' inventories:							
Beginning of year.....do..	174,865.0	16,416.3	3,615.2	5,103.5	5,125.3	4,258.1	2,504.7
Finished products.....do..	55,205.5	8,578.3	215.0	1,839.1	2,144.2	1,653.3	741.6
Work in process.....do..	55,600.2	1,587.0	47.4	1,513.8	1,081.7	888.9	604.6
Materials, supplies, fuel, etc.....do..	64,059.3	6,250.9	3,352.8	1,750.6	1,899.5	1,715.9	1,158.5
End of year.....do..	188,436.4	16,984.9	3,711.9	5,509.9	5,535.8	4,663.8	2,750.3
Finished products.....do..	59,429.9	9,046.7	208.2	1,966.1	2,309.0	1,774.4	788.6
Work in process.....do..	60,732.6	1,584.5	60.6	1,694.0	1,208.9	989.8	688.7
Materials, supplies, fuels, etc.....do..	68,273.9	6,353.6	3,443.1	1,849.9	2,017.9	1,899.6	1,273.0
Capital expenditures for plant and equipment.....do..	50,329.4	4,468.7	189.8	1,354.6	522.9	1,693.4	416.8
New capital expenditures.....do..	47,459.0	4,214.9	181.5	1,223.5	456.7	1,562.6	388.7
New buildings and structures.....do..	8,499.5	908.5	56.7	198.9	114.0	290.9	119.2
New machinery and equipment.....do..	38,959.5	3,306.4	124.7	1,024.5	342.6	1,271.6	269.4
Used capital expenditures.....do..	2,870.4	253.8	8.3	131.1	66.2	130.9	28.1

Item	Major industry groups--Con.						
	26	27	28	29	30	31	32
All industries.....number..	6,545	49,767	12,173	2,206	11,943	3,075	17,744
With 1 to 19 employees.....do..	2,546	40,635	7,571	1,433	6,649	1,589	12,543
With 20 to 99 employees.....do..	2,276	7,230	3,085	495	3,740	823	3,965
With 100 employees or more.....do..	1,723	1,902	1,517	278	1,554	663	1,236
All employees, average for year.....1,000..	628.7	1,092.2	880.2	146.8	721.3	242.5	613.7
Payroll for year, all employees.....mil. dol..	8,942.9	14,024.5	13,839.3	2,696.2	8,536.0	1,859.7	7,943.1
Production workers:							
Average for year.....1,000..	486.3	625.8	543.8	101.1	563.7	211.5	484.4
March.....do..	476.3	614.8	537.5	95.2	548.9	208.5	459.0
May.....do..	485.5	619.6	545.2	102.0	561.6	212.8	485.5
August.....do..	492.4	623.4	548.1	104.5	570.7	212.4	499.3
November.....do..	490.6	631.3	542.5	102.5	572.7	212.1	491.9
Hours.....millions..	985.9	1,152.8	1,089.9	207.9	1,110.6	381.9	960.7
January to March.....do..	241.5	286.4	268.4	47.4	271.9	93.2	219.0
April to June.....do..	248.7	285.2	276.2	53.1	281.9	98.0	245.6
July to September.....do..	246.9	287.0	272.9	54.3	275.8	93.5	252.5
October to December.....do..	248.8	294.3	272.2	53.2	281.0	97.2	243.5
Wages.....mil. dol..	6,323.1	7,322.1	7,446.2	1,765.4	5,841.6	1,408.1	5,766.6
Cost of materials, etc[2].....do..	30,148.2	17,794.7	52,293.8	81,655.4	20,217.8	3,932.6	16,444.8
Materials, parts, containers, etc., consumed.....do..	26,380.3	13,216.7	51,501.5	75,368.3	17,790.7	3,441.8	12,491.9
Resales.....do..	627.2	589.5	3,487.4	3,487.0	1,221.2	283.3	1,149.7
Fuels consumed.....do..	2,039.6	114.7	3,725.1	1,805.4	364.6	37.0	1,833.6
Purchased electric energy.....do..	926.2	312.2	3,725.6	639.9	604.0	46.3	769.5
Contract work.....do..	175.0	3,561.5	854.0	354.9	237.3	124.2	200.1

See footnotes at end of table.

Table 8. Summary Statistics by Major Industry Group: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix A)

Item	Major industry groups--Con.						
	26	27	28	29	30	31	32
Value of shipments, including resales[2]...do..	52,085.7	49,716.2	118,153.6	97,452.7	39,552.8	7,607.4	35,476.6
Value of resales...do..	774.7	821.2	4,891.5	3,698.6	1,514.0	363.6	1,360.9
Value added by manufacture...do..	22,170.9	31,979.5	56,720.6	16,377.6	19,740.0	3,718.8	19,129.6
Manufacturers' inventories:							
Beginning of year...do..	5,281.0	3,943.0	13,447.5	4,912.9	4,441.4	1,033.0	3,995.3
Finished products...do..	1,811.1	1,367.1	6,338.7	2,426.4	1,931.3	428.1	1,923.2
Work in process...do..	568.6	868.7	2,032.0	1,192.7	741.6	240.9	560.8
Materials, supplies, fuel, etc...do..	2,901.3	1,707.2	5,076.3	1,293.8	1,768.5	364.1	1,511.3
End of year...do..	5,641.5	4,200.6	14,791.3	5,656.3	4,952.7	1,098.9	4,279.3
Finished products...do..	1,964.3	1,349.8	6,993.5	2,796.2	2,244.8	457.0	1,987.7
Work in process...do..	648.8	944.0	2,239.2	1,403.2	833.0	255.9	594.1
Materials, supplies, fuel, etc...do..	3,028.3	1,906.8	5,558.6	1,457.0	1,874.9	386.0	1,697.5
Capital expenditures, for plant and equipment...do..	3,503.4	1,728.3	8,402.5	2,349.9	1,763.7	106.6	2,001.0
New capital expenditures...do..	3,295.0	1,597.8	8,198.9	2,261.3	1,645.3	96.2	1,881.4
New buildings and structures...do..	326.0	310.5	1,246.3	617.8	306.4	21.6	337.2
New machinery and equipment...do..	2,969.0	1,287.2	6,952.6	1,643.5	1,338.9	74.6	1,544.2
Used capital expenditures...do..	208.4	130.6	203.6	88.6	118.4	10.4	119.6

	Major industry groups--Con.						
	33	34	35	36	37	38	39
All industries...number..	7,375	33,712	48,200	14,973	10,176	7,481	17,259
With 1 to 19 employees...do..	3,395	20,973	35,754	8,635	6,523	4,943	13,465
With 20 to 99 employees...do..	2,248	9,421	9,081	3,468	2,091	1,630	2,884
With 100 employees or more...do..	1,732	3,318	3,365	2,870	1,562	908	910
All employees, average for year...1,000..	1,113.6	1,555.7	2,083.3	1,723.1	1,768.2	559.1	440.7
Payroll for year, all employees...mil. dol..	18,745.0	21,035.9	30,557.5	22,544.2	30,673.5	7,520.4	4,406.4
Production workers:							
Average for year...1,000..	885.3	1,191.6	1,413.8	1,191.4	1,284.4	347.2	338.7
March...do..	871.7	1,158.2	1,392.3	1,160.3	1,274.6	340.5	325.1
May...do..	897.2	1,184.6	1,403.0	1,179.7	1,297.2	344.6	335.4
August...do..	890.2	1,202.3	1,412.5	1,196.8	1,239.5	350.7	345.5
November...do..	881.6	1,219.2	1,445.4	1,227.6	1,325.4	351.9	346.3
Hours...millions..	1,744.0	2,373.8	2,803.0	2,309.2	2,612.7	677.9	626.7
January to March...do..	424.3	569.0	679.7	561.5	634.6	167.7	149.8
April to June...do..	453.5	601.1	695.8	587.1	677.1	171.5	159.4
July to September...do..	431.6	597.2	696.3	564.3	647.2	166.1	155.3
October to December...do..	434.7	606.5	731.2	596.3	653.9	172.6	162.1
Wages...mil. dol..	14,065.2	14,428.8	18,298.4	12,951.6	20,314.3	3,743.2	2,745.3
Cost of materials, etc.[2]...do..	66,171.3	45,384.8	56,531.6	39,369.5	103,489.6	10,503.9	9,061.4
Materials, parts, containers, etc., consumed...do..	56,899.6	39,722.6	49,813.5	34,741.7	99,361.8	9,052.3	7,897.9
Resales...do..	1,239.0	2,783.6	3,376.3	2,850.5	1,605.1	961.6	692.6
Fuels consumed...do..	4,299.5	607.2	475.4	318.8	554.3	107.7	74.2
Purchased electric energy...do..	2,750.3	753.0	802.9	672.9	850.9	168.9	128.8
Contract work...do..	983.0	1,518.4	2,063.5	785.6	1,117.5	213.5	267.9
Value of shipments, including resales[2]...do..	103,179.4	90,023.5	122,187.7	88,433.1	166,954.0	28,897.8	19,150.7
Value of resales...do..	1,425.8	3,410.4	4,652.2	3,935.7	1,994.4	1,488.0	998.6
Value added by manufacture...do..	37,568.2	45,511.5	67,222.5	50,365.7	64,291.1	18,762.0	10,291.0
Manufacturers' inventories:							
Beginning of year...do..	17,884.5	14,111.8	25,153.3	14,273.0	20,745.1	5,311.1	3,309.0
Finished products...do..	4,401.0	3,400.0	7,030.1	3,645.7	2,662.2	1,369.9	1,299.3
Work in process...do..	6,056.2	4,877.8	10,998.2	6,305.3	12,375.6	2,248.6	810.0
Materials, supplies, fuel, etc...do..	7,427.9	5,834.0	7,125.1	4,322.1	5,707.3	1,692.6	1,199.6
End of year...do..	18,458.3	15,306.2	27,170.9	16,058.7	22,240.5	5,810.6	3,614.2
Finished products...do..	4,675.5	3,688.9	7,506.7	3,962.5	2,817.0	1,495.9	1,397.2
Work in process...do..	6,340.5	5,461.9	12,088.0	7,290.5	13,002.5	2,490.7	913.8
Materials, supplies, fuel, etc...do..	7,442.3	6,155.4	7,576.2	4,805.7	6,421.0	1,824.1	1,303.1
Capital expenditures for plant and equipment...do..	4,746.4	2,880.0	4,762.5	3,118.2	4,820.2	983.2	517.0
New capital expenditures...do..	4,496.8	2,606.1	4,402.4	2,866.5	4,670.9	938.9	473.6
New buildings and structures...do..	652.8	480.9	948.7	519.9	695.6	235.3	112.1
New machinery and equipment...do..	3,844.0	2,125.3	3,453.7	2,346.6	3,975.3	703.6	361.5
Used capital expenditures...do..	249.6	273.9	360.0	251.7	149.3	44.3	43.4

[1] Includes administrative offices and auxiliaries.

[2] Aggregate of cost of materials and value of shipments for industry groups and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others.

Table 9. **Gross Book Value of Depreciable Assets, Capital Expenditures, Retirements, Depreciation Charges, and Rental Payments for Buildings and Machinery by Major Industry Group: 1977**

Item description	Total (million dollars)	Buildings and other structures (million dollars)	Machinery and equipment (million dollars)	Standard error of estimate for total (percent)
ALL INDUSTRIES				
ASSETS, BEGINNING OF YEAR.	402 067.0	104 196.3	297 870.6	1
CAPITAL EXPEND., NEW . .	48 641.4	8 605.5	40 035.9	1
CAPITAL EXPEND., USED. .	3 265.9	867.6	2 398.3	1
RETIREMENTS.	14 984.0	2 415.8	12 538.4	1
ASSETS, END OF YEAR. . . .	439 020.3	111 257.7	327 762.6	1
DEPRECIATION CHARGES . . .	26 734.9	4 587.4	22 147.3	1
RENTAL PAYMENTS.	7 064.2	3 207.9	3 856.3	1
20-FOOD AND KINDRED PRODUCTS				
ASSETS, BEGINNING OF YEAR.	35 088.4	10 853.8	24 234.7	1
CAPITAL EXPEND., NEW . .	4 319.3	947.6	3 371.6	1
CAPITAL EXPEND., USED. .	274.8	81.5	193.3	4
RETIREMENTS.	1 256.2	263.7	992.9	1
ASSETS, END OF YEAR. . . .	38 426.1	11 619.3	26 806.8	1
DEPRECIATION CHARGES . . .	2 432.9	504.1	1 928.8	1
RENTAL PAYMENTS.	787.5	285.0	502.3	2
21-TOBACCO PRODUCTS				
ASSETS, BEGINNING OF YEAR.	1 663.8	559.7	1 104.1	1
CAPITAL EXPEND., NEW . .	181.5	56.9	124.6	1
CAPITAL EXPEND., USED. .	8.5	1.7	6.8	4
RETIREMENTS.	64.2	4.0	60.2	1
ASSETS, END OF YEAR. . . .	1 789.7	614.3	1 175.4	1
DEPRECIATION CHARGES . . .	111.0	29.5	81.5	1
RENTAL PAYMENTS.	14.4	9.0	5.4	2
22-TEXTILE MILL PRODUCTS				
ASSETS, BEGINNING OF YEAR.	13 992.5	3 592.4	10 400.2	1
CAPITAL EXPEND., NEW . .	1 285.6	216.7	1 068.9	1
CAPITAL EXPEND., USED. .	163.1	32.8	130.3	4
RETIREMENTS.	600.8	98.4	502.3	2
ASSETS, END OF YEAR. . . .	14 840.2	3 742.9	11 097.1	1
DEPRECIATION CHARGES . . .	921.1	139.9	781.2	1
RENTAL PAYMENTS.	192.4	94.4	98.1	3
23-APPAREL, OTHER TEXTILE PRODS				
ASSETS, BEGINNING OF YEAR.	3 773.6	1 276.7	2 497.1	1
CAPITAL EXPEND., NEW . .	528.9	127.3	401.6	3
CAPITAL EXPEND., USED. .	114.3	24.1	90.2	3
RETIREMENTS.	311.6	80.5	231.6	4
ASSETS, END OF YEAR. . . .	4 105.3	1 347.7	2 757.3	1
DEPRECIATION CHARGES . . .	329.1	64.7	264.4	5
RENTAL PAYMENTS.	326.6	231.6	94.9	4
24-LUMBER AND WOOD PRODUCTS				
ASSETS, BEGINNING OF YEAR.	11 258.6	2 430.2	8 828.4	1
CAPITAL EXPEND., NEW . .	1 709.5	275.8	1 433.6	1
CAPITAL EXPEND., USED. .	150.4	21.4	129.0	6
RETIREMENTS.	666.1	125.3	541.0	1
ASSETS, END OF YEAR. . . .	12 452.4	2 602.0	9 850.0	1
DEPRECIATION CHARGES . . .	1 128.5	167.0	961.4	2
RENTAL PAYMENTS.	243.4	96.5	146.4	4
25-FURNITURE AND FIXTURES				
ASSETS, BEGINNING OF YEAR.	3 621.6	1 532.0	2 089.4	1
CAPITAL EXPEND., NEW . .	447.3	142.5	304.9	4
CAPITAL EXPEND., USED. .	36.3	15.8	20.5	12
RETIREMENTS.	173.6	67.3	106.3	4
ASSETS, END OF YEAR. . . .	3 931.7	1 622.9	2 308.6	1
DEPRECIATION CHARGES . . .	275.9	69.0	206.9	2
RENTAL PAYMENTS.	169.8	109.5	60.2	4
26-PAPER AND ALLIED PRODUCTS				
ASSETS, BEGINNING OF YEAR.	28 362.6	4 997.2	23 365.4	1
CAPITAL EXPEND., NEW . .	3 352.2	332.6	3 019.6	1
CAPITAL EXPEND., USED. .	228.6	41.7	186.9	5
RETIREMENTS.	572.2	74.7	497.8	2
ASSETS, END OF YEAR. . . .	31 371.1	5 297.0	26 074.0	1
DEPRECIATION CHARGES . . .	1 602.8	213.3	1 389.5	1
RENTAL PAYMENTS.	322.7	131.5	191.3	3
27-PRINTING AND PUBLISHING				
ASSETS, BEGINNING OF YEAR.	13 873.3	3 831.9	10 041.2	1
CAPITAL EXPEND., NEW . .	1 799.7	329.7	1 470.0	1
CAPITAL EXPEND., USED. .	198.0	68.6	129.4	1
RETIREMENTS.	631.5	93.1	539.1	1
ASSETS, END OF YEAR. . . .	15 239.3	4 137.1	11 101.5	1
DEPRECIATION CHARGES . . .	1 110.1	180.8	929.3	2
RENTAL PAYMENTS.	604.1	345.3	258.2	2
28-CHEMICALS AND ALLIED PRODUCTS				
ASSETS, BEGINNING OF YEAR.	58 531.2	11 440.4	47 090.6	1
CAPITAL EXPEND., NEW . .	8 180.7	1 222.4	6 957.4	1
CAPITAL EXPEND., USED. .	211.4	49.3	162.0	3
RETIREMENTS.	1 623.1	264.6	1 358.4	1
ASSETS, END OF YEAR. . . .	65 300.3	12 447.9	52 851.8	1
DEPRECIATION CHARGES . . .	4 001.4	577.9	3 423.4	1
RENTAL PAYMENTS.	513.3	157.2	355.8	2
29-PETROLEUM AND COAL PRODUCTS				
ASSETS, BEGINNING OF YEAR.	23 677.4	9 335.1	14 342.2	1
CAPITAL EXPEND., NEW . .	2 250.7	607.0	1 643.7	1
CAPITAL EXPEND., USED. .	98.8	39.7	59.1	10
RETIREMENTS.	309.3	124.9	184.5	2
ASSETS, END OF YEAR. . . .	25 717.5	9 856.8	15 860.5	1
DEPRECIATION CHARGES . . .	1 068.2	394.9	673.2	1
RENTAL PAYMENTS.	136.0	33.4	102.4	3
30-RUBBER, MISC PLASTICS PROD				
ASSETS, BEGINNING OF YEAR.	14 774.0	3 582.5	11 191.8	1
CAPITAL EXPEND., NEW . .	1 700.2	329.9	1 370.3	1
CAPITAL EXPEND., USED. .	129.7	35.6	94.1	7
RETIREMENTS.	566.9	80.3	486.8	2
ASSETS, END OF YEAR. . . .	16 036.9	3 867.6	12 169.4	1
DEPRECIATION CHARGES . . .	1 131.4	160.0	971.4	1
RENTAL PAYMENTS.	284.2	152.3	131.5	3
31-LEATHER AND LEATHER PRODUCTS				
ASSETS, BEGINNING OF YEAR.	895.9	327.0	568.9	2
CAPITAL EXPEND., NEW . .	109.0	25.6	83.3	7
CAPITAL EXPEND., USED. .	12.9	4.9	8.0	10
RETIREMENTS.	45.0	9.2	35.9	8
ASSETS, END OF YEAR. . . .	972.7	348.4	624.3	2
DEPRECIATION CHARGES . . .	71.7	15.5	56.2	4
RENTAL PAYMENTS.	64.0	31.1	32.9	3
32-STONE, CLAY, GLASS PRODUCTS				
ASSETS, BEGINNING OF YEAR.	18 511.0	4 438.2	14 072.6	1
CAPITAL EXPEND., NEW . .	2 017.5	346.0	1 671.5	1
CAPITAL EXPEND., USED. .	133.8	24.6	109.1	9
RETIREMENTS.	592.2	80.0	512.4	3
ASSETS, END OF YEAR. . . .	20 070.0	4 728.8	15 340.9	1
DEPRECIATION CHARGES . . .	1 247.4	191.3	1 056.0	2
RENTAL PAYMENTS.	225.1	82.9	142.0	4
33-PRIMARY METAL INDUSTRIES				
ASSETS, BEGINNING OF YEAR.	55 272.7	10 708.2	44 563.3	1
CAPITAL EXPEND., NEW . .	4 549.3	653.9	3 895.3	1
CAPITAL EXPEND., USED. .	262.7	38.9	223.8	3
RETIREMENTS.	1 773.1	285.4	1 488.0	1
ASSETS, END OF YEAR. . . .	58 311.6	11 115.8	47 195.5	1
DEPRECIATION CHARGES . . .	2 482.9	325.6	2 157.5	1
RENTAL PAYMENTS.	330.3	85.9	244.2	3
34-FABRICATED METAL PRODUCTS				
ASSETS, BEGINNING OF YEAR.	23 743.9	6 350.7	17 393.8	1
CAPITAL EXPEND., NEW . .	2 761.8	481.0	2 280.8	7
CAPITAL EXPEND., USED. .	304.8	82.1	222.5	6
RETIREMENTS.	892.6	160.4	732.2	2
ASSETS, END OF YEAR. . . .	25 917.9	6 753.3	19 164.5	1
DEPRECIATION CHARGES . . .	1 786.8	322.8	1 464.0	1
RENTAL PAYMENTS.	612.9	323.4	289.7	1
35-MACHINERY, EXCEPT ELECTRICAL				
ASSETS, BEGINNING OF YEAR.	32 563.6	9 316.5	23 247.3	1
CAPITAL EXPEND., NEW . .	4 435.9	933.0	3 502.5	1
CAPITAL EXPEND., USED. .	426.9	148.9	278.0	1
RETIREMENTS.	1 334.2	186.1	1 148.3	1
ASSETS, END OF YEAR. . . .	36 091.8	10 212.1	25 879.0	1
DEPRECIATION CHARGES . . .	2 494.3	401.1	2 093.4	1
RENTAL PAYMENTS.	848.6	397.0	451.4	2
36-ELECTRIC, ELECTRONIC EQUIP				
ASSETS, BEGINNING OF YEAR.	21 845.9	6 716.2	15 129.5	1
CAPITAL EXPEND., NEW . .	2 873.2	512.7	2 360.2	1
CAPITAL EXPEND., USED. .	248.8	83.3	165.5	2
RETIREMENTS.	1 045.0	134.7	910.3	1
ASSETS, END OF YEAR. . . .	23 922.5	7 177.5	16 744.7	1
DEPRECIATION CHARGES . . .	1 710.5	291.9	1 418.5	1
RENTAL PAYMENTS.	529.8	249.8	279.9	1
37-TRANSPORTATION EQUIPMENT				
ASSETS, BEGINNING OF YEAR.	28 978.2	8 889.0	20 089.1	1
CAPITAL EXPEND., NEW . .	4 685.1	714.5	3 970.1	4
CAPITAL EXPEND., USED. .	158.1	29.9	128.3	8
RETIREMENTS.	1 976.7	165.8	1 811.0	1
ASSETS, END OF YEAR. . . .	31 844.7	9 467.5	22 376.8	1
DEPRECIATION CHARGES . . .	1 894.8	344.1	1 550.6	1
RENTAL PAYMENTS.	475.1	178.3	296.8	2
38-INSTRUMENTS, RELATED PRODUCTS				
ASSETS, BEGINNING OF YEAR.	7 732.0	2 712.5	5 019.4	1
CAPITAL EXPEND., NEW . .	930.5	225.9	704.6	2
CAPITAL EXPEND., USED. .	54.2	24.4	29.8	13
RETIREMENTS.	296.4	70.4	226.0	4
ASSETS, END OF YEAR. . . .	8 420.2	2 892.2	5 528.0	1
DEPRECIATION CHARGES . . .	602.0	125.3	476.7	1
RENTAL PAYMENTS.	212.4	100.4	111.8	3
39-MISC MANUFACTURING INDUSTRIES				
ASSETS, BEGINNING OF YEAR.	3 906.8	1 306.1	2 600.6	1
CAPITAL EXPEND., NEW . .	523.5	122.6	400.9	4
CAPITAL EXPEND., USED. .	49.8	18.4	31.4	7
RETIREMENTS.	223.3	47.9	175.4	7
ASSETS, END OF YEAR. . . .	4 256.7	1 399.3	2 857.5	1
DEPRECIATION CHARGES . . .	332.1	68.7	263.4	2
RENTAL PAYMENTS.	171.6	112.3	59.3	3

Note: Expenditures data, shown in table 3a, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures. For a description of the standard error of estimate, see the section "Qualifications of data" in appendix B.

Table 10. **Cost of Purchased Services by Major Industry Group: 1977**

Code	Industry group	Repair of buildings			Repair of machinery			Communication services		
		Cost (million dollars)	Response coverage ratio (percent)	Standard error of estimate (percent)	Cost (million dollars)	Response coverage ratio (percent)	Standard error of estimate (percent)	Cost (million dollars)	Response coverage ratio (percent)	Standard error of estimate (percent)
	United States	2,300.2	61	(NA)	9,569.2	59	(NA)	3,576.7	63	(NA)
20	Food and kindred products	321.8	59	7	1,392.5	61	6	(347.7)	62	24
21	Tobacco products	13.5	72	3	6.7	61	14	4.2	72	3
22	Textile mill products	118.0	59	2	454.8	62	3	207.5	68	4
23	Apparel and other textile products	(227.9)	57	82	(519.0)	58	19	(406.5)	60	20
24	Lumber and wood products	(33.8)	60	16	(283.2)	60	59	(66.8)	59	(A)
25	Furniture and fixtures	(23.0)	58	(A)	(69.8)	55	40	(40.1)	56	58
26	Paper and allied products	79.4	53	10	(524.0)	56	31	(100.4)	56	75
27	Printing and publishing	75.4	60	4	(501.1)	63	29	351.4	60	6
28	Chemicals and allied products	231.8	63	3	989.2	61	1	249.6	68	3
29	Petroleum and coal products	174.0	57	2	410.4	51	7	(25.2)	55	88
30	Rubber and miscellaneous plastics products	58.9	58	4	306.7	63	3	89.6	62	5
31	Leather and leather products	10.5	54	8	31.8	59	10	12.0	53	8
32	Stone, clay, and glass products	62.3	59	6	424.5	57	8	(72.1)	59	(A)
33	Primary metal products	178.5	61	2	1127.4	56	2	105.3	68	6
34	Fabricated metal products	140.8	57	7	898.5	57	20	(314.6)	59	30
35	Machinery, except electrical	(192.4)	62	32	(556.4)	62	20	(423.9)	64	22
36	Electric and electronic equipment	141.1	65	6	348.4	66	6	(296.9)	63	23
37	Transportation equipment	154.3	73	2	(562.0)	69	24	(244.1)	69	49
38	Instruments and related products	41.8	68	5	80.0	66	4	113.4	78	7
39	Miscellaneous manufacturing industries	21.0	65	5	(82.8)	65	22	(105.4)	67	46

Note: Figures are estimates collected on the continuing ASM sample and, as such, are subject to sampling errors. Figures in parenthesis have standard errors of 15 percent or more.

(A) Indicates standard errors of 100 percent or more. The estimates are of limited reliability and should be used with caution.
(NA) Not available.

Meat Products

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DESCRIPTION OF INDUSTRIES

MEAT PRODUCTS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2011	Meat Packing Plants
2013	Sausages and Other Prepared Meats
2016	Poultry Dressing Plants
2017	Poultry and Egg Processing

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2011, MEAT PACKING PLANTS

This industry comprises establishments primarily engaged in the slaughtering, for their own account or on a contract basis for the trade, of cattle, hogs, sheep, lambs, and calves for meat to be sold or to be used on the same premises in canning and curing, and in making sausage, lard, and other products. Establishments primarily engaged in killing, dressing, and packing poultry, rabbits, and other small game are classified in industry 2016; and those primarily engaged in killing and processing horses and other nonfood animals are classified in industry 2047. Establishments primarily engaged in the manufacture of sausages and meat specialties from purchased meats are classified in industry 2013; and establishments primarily engaged in canning meat for baby food are classified in industry 2032.

The total value of shipments for establishments classified in the Meat Packing Plants industry amounted to $31,208 million in 1977, an increase of 36 percent from 1972. The value of shipments of products classified as primary to the industry was $23,359 million, an increase of 28 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $4,010 million in 1977, was 35 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 146.2 thousand employees, a decrease of 7 percent from 1972. The leading States in employment were Iowa, Texas, Wisconsin, and Minnesota, accounting for approximately 35 percent of the industry's 1977 employment. This represents a shift from 1972 when Iowa, Texas, Minnesota, and Nebraska accounted for approximately 34 percent of the industry's employment.

Certain products primary to industry 2011 are also primary to industry 2013, Sausages and Other Prepared Meats. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS

This industry comprises establishments primarily engaged in the manufacture of sausages, cured meats, smoked meats, canned meats, frozen meats, natural sausage casings, and other prepared meats and meat specialties, from purchased carcasses and other materials. Sausage kitchens and other prepared meat plants operated by packing houses as separate establishments are also included in this industry. Establishments primarily engaged in canning or otherwise processing poultry, rabbits, and other small game are classified in industries 2016 and 2017. Establishments primarily engaged in the cutting up and resale of purchased fresh carcasses are classified in trade industries. Establishments primarily engaged in canning meat for baby food are classified in industry 2032.

The total value of shipments for establishments classified in the Sausages and Other Prepared Meats industry amounted to

$8,465 million in 1977, an increase of 83 percent from 1972. The value of shipments of products classified as primary to the industry was $11,663 million, an increase of 60 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $2,039 million in 1977, was 85 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 65.0 thousand employees, an increase of 11 percent from 1972. The leading States in employment were Illinois, California, Pennsylvania, and New York, accounting for approximately 40 percent of the industry's 1977 employment.

Certain products primary to industry 2013 are also primary to Industry 2011, Meat Packing Plants. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 7 percent of total value of shipments.

INDUSTRY 2016, POULTRY DRESSING PLANTS

This industry comprises establishments primarily engaged in slaughtering and dressing poultry for their own account or on a contract basis for the trade for meat to be sold or to be used on the same premises in further processing, including cooking, smoking, raw-boning, canning, freezing, and dehydrating. This industry also includes the killing, dressing, and packing of rabbits and other small game. Establishments primarily engaged in processing purchased carcasses are classified in industry 2017.

The total value of shipments for establishments classified in the Poultry Dressing Plants industry amounted to $5,746 million in 1977, an increase of 76 percent from 1972. The value of shipments of products classified as primary to the industry was $5,292 million, an increase of 72 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $1,237 million in 1977, was 71 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 86.8 thousand employees, an increase of 12 percent from 1972. The leading States in employment were Arkansas, Georgia, North Carolina, and Alabama, accounting for approximately 40 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 40 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

Certain products primary to industry 2016 are also primary to Industry 2017, Poultry and Egg Processing. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

INDUSTRY 2017, POULTRY AND EGG PROCESSING

This industry comprises establishments primarily engaged in the preparation of processed poultry products from purchased carcasses, including cooking, smoking, raw-boning, canning, freezing, and dehydrating, for their own account or on a contract basis for the trade; or in the drying, freezing, and breaking of eggs. The cleaning, oil treating, packing, and grading of eggs are classified in industry 5144. Establishments primarily engaged in the cutting up and resale of purchased fresh carcasses are classified in the trade industries.

The total value of shipments for establishments classified in the Poultry and Egg Processing industry amounted to $857 million in 1977, an increase of 46 percent from 1972. Value added by manufacture, at $192 million in 1977, was 14 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 11.1 thousand employees, an increase of 14 percent from 1972. The leading States in employment were Minnesota, Nebraska, Pennsylvania, and New Jersey, accounting for approximately 40 percent of the industry's 1977 employment.

Certain products primary to industry 2017 are also primary to Industry 2016, Poultry Dressing Plants. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2011, MEAT PACKING PLANTS																
1977 Census--	2 405	2 590	737	146.2	2 110.6	116.5	237.2	1 625.9	4 010.0	27 239.2	31 208.2	236.7	(NA)	700.1	98	84
1976 ASM----	(NA)	(NA)	(NA)	156.7	2 085.2	124.1	257.0	1 608.6	4 350.7	27 977.0	32 392.6	210.6	2 205.8	676.8	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	160.1	1 918.4	126.1	257.1	1 468.0	4 190.6	27 225.6	31 341.8	248.4	2 152.3	741.8	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	159.2	1 768.9	124.8	260.7	1 341.4	3 680.6	25 090.7	28 834.6	216.0	1 938.2	662.3	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	149.4	1 534.7	116.1	240.1	1 147.0	3 954.7	24 073.3	27 311.5	182.2	1 843.9	681.7	(NA)	(NA)
1972 Census--	2 291	2 475	864	157.5	1 532.1	123.4	254.4	1 148.4	2 968.1	20 120.1	23 003.4	167.7	1 783.1	555.9	98	84
1971 ASM----	(NA)	(NA)	(NA)	160.7	1 502.0	124.6	260.4	1 120.5	3 042.3	15 814.1	18 827.5	162.1	1 607.3	493.6	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	163.4	1 450.9	126.2	266.3	1 076.4	2 665.3	15 740.9	18 434.7	153.8	1 644.0	460.3	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	166.7	1 379.9	128.5	267.5	1 016.2	2 448.9	15 540.7	17 968.1	135.1	1 486.4	524.2	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	168.4	1 317.0	129.1	271.5	992.3	2 444.0	13 872.2	16 285.4	109.3	1 420.8	512.5	(NA)	(NA)
1967 Census--	2 259	2 697	855	170.5	1 258.1	130.7	274.1	920.8	2 220.5	13 354.5	15 576.3	109.4	1 367.9	478.0	98	85
1966 ASM----	(NA)	(NA)	(NA)	173.4	1 207.4	132.0	278.1	880.3	2 021.3	13 045.3	15 040.8	104.1	(NA)	451.3	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	179.8	1 210.5	136.9	285.9	883.1	2 056.4	11 879.5	13 909.2	101.0	(NA)	435.8	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	182.7	1 226.5	138.6	310.1	902.5	2 127.9	10 858.7	12 973.3	94.7	1 178.9	416.1	(NA)	(NA)
1963 Census--	2 283	2 992	976	180.9	1 146.9	138.4	289.3	847.0	1 908.3	10 530.9	12 435.5	80.2	1 110.1	408.1	98	88
INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS																
1977 Census--	1 211	1 345	570	65.0	891.9	50.1	100.4	626.6	2 039.0	6 445.2	8 465.4	151.6	(NA)	406.4	97	80
1976 ASM----	(NA)	(NA)	(NA)	57.6	729.5	43.4	86.1	492.6	1 688.7	5 413.6	7 098.7	110.1	897.5	332.7	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	56.1	667.8	42.3	84.5	449.0	1 538.8	5 024.7	6 582.2	96.4	840.6	327.2	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	56.7	608.8	42.7	85.8	415.3	1 069.2	4 466.5	5 842.4	90.8	800.1	310.1	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	55.6	540.9	41.4	83.5	363.8	1 131.1	4 245.1	5 349.4	54.5	714.3	269.2	(NA)	(NA)
1972 Census--	1 207	1 311	557	58.1	542.2	43.5	88.2	372.2	1 099.9	3 556.0	4 632.4	74.0	705.2	221.7	97	52
1971 ASM----	(NA)	(NA)	(NA)	56.4	484.0	42.1	85.4	330.9	1 045.2	2 729.5	3 762.2	63.1	596.9	178.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	55.2	436.5	40.6	83.0	292.4	923.0	2 648.6	3 569.1	74.5	552.6	160.5	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	51.9	406.6	38.6	80.2	270.5	821.9	2 556.7	3 367.9	62.6	511.3	146.3	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	51.9	385.9	38.8	80.6	259.3	773.3	2 324.5	3 097.3	36.9	491.8	127.2	(NA)	(NA)
1967 Census--	1 294	1 374	560	54.4	378.4	40.4	84.0	250.8	742.5	2 261.0	3 007.7	30.4	486.3	129.3	96	46
1966 ASM----	(NA)	(NA)	(NA)	48.4	316.6	35.6	74.7	208.3	624.6	1 888.6	2 502.4	33.2	(NA)	119.6	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	49.0	307.8	36.6	75.3	205.1	607.3	1 721.7	2 323.1	51.6	(NA)	109.8	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	50.9	314.5	38.0	81.5	213.0	596.9	1 699.8	2 296.6	29.8	304.0	101.6	(NA)	(NA)
1963 Census--	1 273	1 341	483	48.6	289.4	36.4	76.0	195.2	563.4	1 568.7	2 130.3	21.4	284.3	96.6	94	40
INDUSTRY 2016, POULTRY DRESSING PLANTS[3]																
1977 Census--	314	446	313	86.8	612.3	77.7	143.6	496.3	1 236.9	4 520.1	5 746.1	126.1	(NA)	205.8	99	92
1976 ASM----	(NA)	(NA)	(NA)	83.6	563.5	73.4	137.5	444.2	1 279.4	4 093.1	5 354.7	87.6	624.9	189.6	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	79.5	491.5	70.6	131.8	389.7	1 217.5	3 800.7	5 041.9	64.0	549.8	160.9	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	83.7	493.3	74.8	143.7	395.9	1 046.9	3 569.7	4 601.2	75.0	528.1	191.8	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	81.6	436.5	74.3	143.1	365.4	1 060.0	3 478.2	4 499.7	54.3	475.6	172.2	(NA)	(NA)
1972 Census--	407	522	366	77.6	391.8	70.7	139.3	331.1	724.4	2 527.0	3 254.1	45.5	460.6	111.2	97	97
INDUSTRY 2017, POULTRY AND EGG PROCESSING[3]																
1977 Census--	126	153	85	11.1	86.8	9.8	18.6	68.1	192.0	669.6	856.6	18.3	(NA)	66.3	99	73
1976 ASM----	(NA)	(NA)	(NA)	13.4	95.4	11.9	22.4	75.2	211.8	768.3	981.0	15.7	124.5	57.0	300	366
1975 ASM[5]---	(NA)	(NA)	(NA)	12.6	83.0	11.0	20.6	63.8	222.0	626.3	850.8	13.5	124.3	56.8	(NA)	(NA)
1974 ASM[6]---	(NA)	(NA)	(NA)	12.3	73.8	10.9	20.8	57.3	190.2	560.9	757.1	12.1	97.6	59.7	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	14.5	83.0	13.0	24.7	66.0	195.0	591.1	781.0	13.0	95.4	67.7	(NA)	(NA)
1972 Census--	110	130	80	14.6	77.5	13.0	24.7	61.7	168.5	419.6	588.1	12.4	97.9	62.5	94	88

- Represents zero (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2011, MEAT PACKING PLANTS											
1977 Census--	14 433	(NA)	79	2 036	6.85	87	94	(NA)	27 422	52	16.90
1976 ASM----	13 306	14 076	79	2 070	6.25	86	92	6	27 764	47	15.92
1975 ASM----	11 982	13 443	78	2 038	5.70	86	92	6	26 174	45	16.29
1974 ASM----	11 111	12 174	78	2 088	5.14	87	93	6	23 119	48	14.11
1973 ASM----	10 272	12 342	77	2 068	4.77	88	93	6	26 470	38	16.47
1972 Census--	9 727	11 321	78	2 061	4.51	87	94	7	18 845	51	11.66
1971 ASM----	9 346	10 001	77	2 089	4.30	83	91	8	18 931	49	11.68
1970 ASM----	8 879	10 061	77	2 110	4.04	85	93	8	16 312	54	10.00
1969 ASM----	8 277	8 916	77	2 081	3.79	86	94	8	14 690	56	9.15
1968 ASM----	7 820	8 437	76	2 103	3.65	85	93	8	14 513	53	9.00
1967 Census--	7 378	8 022	76	2 097	3.35	85	93	8	13 023	56	8.10
1966 ASM----	6 963	(NA)	76	2 106	3.16	86	94	(NA)	11 656	59	7.26
1965 ASM----	6 732	(NA)	76	2 088	3.08	85	94	(NA)	11 437	58	7.19
1964 ASM----	6 713	6 452	75	2 237	2.91	83	93	9	11 646	57	6.86
1963 Census--	6 339	6 136	76	2 090	2.92	84	93	8	10 548	60	6.59
INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS											
1977 Census--	13 713	(NA)	77	2 003	6.24	76	86	(NA)	31 351	43	20.31
1976 ASM----	12 664	15 581	75	1 983	5.72	76	86	12	29 317	43	19.61
1975 ASM----	11 903	14 983	75	1 997	5.31	76	86	12	27 429	43	18.21
1974 ASM----	10 737	14 111	75	2 009	4.84	76	86	13	18 857	56	12.46
1973 ASM----	9 728	12 847	74	2 016	4.35	79	89	13	20 343	47	13.54
1972 Census--	9 332	12 137	74	2 027	4.21	76	88	15	18 931	49	12.47
1971 ASM----	8 581	10 583	74	2 028	3.87	72	85	15	18 531	46	12.23
1970 ASM----	7 907	10 010	73	2 044	3.52	74	86	15	16 721	47	11.12
1969 ASM----	7 834	9 852	74	2 077	3.37	75	87	15	15 836	49	10.24
1968 ASM----	7 435	9 475	74	2 077	3.21	75	87	15	14 899	49	9.59
1967 Census--	6 955	8 939	74	2 079	2.98	75	87	16	13 648	50	8.83
1966 ASM----	6 541	(NA)	73	2 098	2.78	75	88	(NA)	12 904	50	8.36
1965 ASM----	6 281	(NA)	74	2 057	2.72	74	87	(NA)	12 393	50	8.06
1964 ASM----	6 178	5 972	74	2 144	2.61	74	87	13	11 726	52	7.32
1963 Census--	5 954	5 849	74	2 087	2.56	73	87	13	11 592	51	7.41
INDUSTRY 2016, POULTRY DRESSING PLANTS											
1977 Census--	7 057	(NA)	89	1 849	3.45	78	89	(NA)	14 257	49	8.61
1976 ASM----	6 740	7 474	87	1 873	3.23	76	86	11	15 303	44	9.30
1975 ASM----	6 182	6 915	88	1 866	2.95	75	85	10	15 314	40	9.23
1974 ASM----	5 893	6 309	89	1 921	2.75	77	88	11	12 507	47	7.28
1973 ASM----	5 349	5 828	91	1 925	2.55	77	86	10	12 990	41	7.40
1972 Census--	5 048	5 935	91	1 970	2.37	77	89	14	9 335	54	5.20
INDUSTRY 2017, POULTRY AND EGG PROCESSING											
1977 Census--	7 824	(NA)	88	1 898	3.67	78	88	(NA)	17 307	45	10.35
1976 ASM----	7 119	9 291	88	1 882	3.35	78	88	12	15 805	45	9.45
1975 ASM----	6 587	9 865	87	1 872	3.09	73	83	14	17 619	37	10.77
1974 ASM----	6 000	7 934	88	1 908	2.75	74	83	12	15 463	38	9.14
1973 ASM----	5 724	6 579	89	1 900	2.67	75	86	12	13 448	42	7.89
1972 Census--	5 308	6 705	89	1 900	2.49	71	84	16	11 541	45	6.82

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2011, MEAT PACKING PLANTS													
United States	-	**2 590**	**737**	**146.2**	**2 110.6**	**116.5**	**237.2**	**1 625.9**	**4 010.0**	**27 239.2**	**31 208.2**	**236.7**	**157.5**	**2 968.1**
New England Division:													
New Hampshire	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:													
New York	E3	90	16	2.2	29.3	1.6	3.3	20.5	65.2	236.5	301.0	2.4	2.9	57.3
New Jersey	E1	31	7	0.7	9.8	0.6	1.2	8.0	25.6	164.9	191.4	0.5	1.3	55.7
Pennsylvania	E1	146	45	4.7	64.3	3.8	7.7	46.5	121.8	773.3	891.3	8.4	5.1	83.5
East North Central Division:														
Ohio	-	137	44	7.1	106.5	5.4	11.1	76.5	193.8	907.7	1 101.2	8.6	7.8	127.8
Indiana	-	77	19	3.9	57.2	3.1	6.4	42.7	94.9	623.2	711.5	6.0	3.7	61.7
Illinois	-	105	33	6.1	94.4	5.1	10.2	76.2	167.1	1 278.4	1 443.6	7.4	7.2	133.2
Michigan	E1	105	25	2.9	42.1	2.4	5.3	32.1	102.1	623.9	725.8	9.3	3.4	59.8
Wisconsin	-	77	25	8.5	142.1	8.8	13.6	109.5	290.9	1 256.8	1 542.8	14.8	7.2	158.0
West North Central Division:														
Minnesota	-	35	15	8.1	143.5	6.0	11.3	106.5	227.3	1 303.8	1 525.7	6.6	9.8	186.1
Iowa	-	58	40	20.2	333.3	16.3	30.7	267.8	533.8	4 271.2	4 790.6	36.6	24.0	431.7
Missouri	-	107	22	2.8	40.6	2.2	4.6	32.0	72.3	648.4	717.7	4.2	3.8	83.0
North Dakota	-	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Dakota	-	13	8	4.4	70.1	3.5	6.5	54.7	128.5	586.5	716.3	3.5	(NA)	(D)
Nebraska	-	69	38	6.5	101.3	5.2	11.2	81.0	221.8	2 282.0	2 501.3	13.0	9.4	219.2
Kansas	-	64	15	5.2	80.0	4.4	10.3	66.1	163.1	1 793.3	1 954.1	7.7	5.4	120.2
South Atlantic Division:														
Maryland	-	23	4	1.4	18.0	1.0	2.0	11.7	31.6	102.7	133.5	0.7	2.0	25.6
Virginia	-	43	14	4.7	48.1	3.8	6.5	36.4	88.2	407.8	495.8	6.8	4.2	63.6
West Virginia	E4	23	4	0.3	3.5	0.2	0.5	2.3	6.0	34.7	40.6	0.1	(NA)	(D)
North Carolina	E2	82	15	2.5	28.2	1.9	3.6	18.9	49.2	279.3	329.1	9.2	2.4	37.1
South Carolina	E1	43	9	1.1	10.0	0.8	1.7	6.5	22.0	94.6	116.7	2.4	1.2	16.8
Georgia	E1	82	20	3.2	34.3	2.6	5.7	26.5	57.0	349.3	405.5	3.8	3.5	39.8
Florida	-	42	14	2.3	24.5	1.8	3.9	17.8	40.6	289.5	330.3	(D)	1.7	26.8
East South Central Division:														
Kentucky	-	66	13	2.8	41.3	2.1	4.5	30.0	74.4	343.2	416.0	5.8	2.7	53.3
Tennessee	E1	76	18	4.5	55.1	3.6	7.7	40.6	145.4	534.5	682.1	5.8	5.2	84.7
Alabama	E1	40	8	1.1	13.0	0.8	1.9	9.3	32.0	102.0	134.0	2.7	2.1	30.9
Mississippi	-	53	10	3.0	32.0	2.3	4.9	22.2	50.5	278.2	327.3	5.5	2.9	34.4
West South Central Division:														
Arkansas	E1	49	9	0.9	10.2	0.8	1.5	7.6	25.6	131.9	158.4	(D)	(NA)	(D)
Louisiana	E2	57	10	1.0	11.1	0.8	1.6	8.2	21.8	79.4	100.7	2.6	1.0	11.4
Oklahoma	-	73	17	2.2	32.9	1.7	3.5	24.4	46.7	368.6	415.1	1.6	(NA)	(D)
Texas	-	201	66	12.7	148.9	10.5	21.9	118.4	347.5	2 882.3	3 233.2	15.1	10.0	183.7
Mountain Division:														
Montana	E1	26	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Idaho	-	35	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Colorado	-	54	17	3.8	60.9	3.4	7.6	52.7	122.6	1 179.2	1 299.2	7.5	5.2	132.4
New Mexico	-	19	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Arizona	-	22	9	1.0	14.4	0.8	1.5	10.6	18.7	213.8	239.3	1.8	1.2	25.3
Utah	-	32	8	0.7	7.1	0.6	1.1	5.7	21.5	105.9	127.3	(D)	0.8	33.0
Pacific Division:														
Washington	-	31	14	2.4	37.6	2.0	4.2	31.7	67.0	446.7	513.5	10.8	1.8	51.0
Oregon	E2	38	8	0.7	10.3	0.6	1.2	8.2	19.9	109.8	129.6	1.2	0.6	11.0
California	-	127	60	5.9	95.0	4.4	9.3	71.4	187.4	1 366.6	1 556.8	8.3	5.9	114.0
Hawaii	-	7	4	0.2	2.8	0.2	0.3	1.8	5.1	19.9	25.0	0.2	(NA)	(D)
INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS														
United States	-	**1 345**	**570**	**85.0**	**891.9**	**50.1**	**100.4**	**626.8**	**2 039.0**	**6 445.2**	**8 485.4**	**151.6**	**58.1**	**1 099.9**
New England Division:														
Maine	-	5	3	0.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	4.0
New Hampshire	E4	8	3	0.2	1.9	0.1	0.2	1.3	3.9	17.6	21.1	(D)	(NA)	(NA)
Massachusetts	E1	58	19	2.4	33.7	1.9	3.7	23.6	59.1	226.7	286.8	3.4	3.4	71.0
Connecticut	E1	20	6	0.3	3.5	0.3	0.4	1.9	10.6	17.2	27.7	(D)	0.4	6.1
Middle Atlantic Division:														
New York	-	137	57	4.7	68.6	3.6	7.5	48.5	157.1	399.5	555.8	7.3	5.7	103.9
New Jersey	-	50	28	2.2	34.0	1.7	3.5	24.4	60.1	298.8	359.2	8.2	3.0	45.4
Pennsylvania	-	86	44	5.6	77.7	4.1	7.8	52.1	187.1	594.9	779.7	21.2	4.9	95.6
East North Central Division:														
Ohio	-	54	24	3.1	43.9	2.5	5.1	34.4	112.5	299.2	411.8	5.3	2.8	47.5
Indiana	-	22	12	1.7	24.3	1.3	2.6	17.1	57.8	134.4	191.8	3.2	0.9	27.1
Illinois	-	95	43	7.5	117.3	6.2	12.4	89.0	247.3	732.5	973.0	17.2	7.9	161.6
Michigan	-	58	28	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	68.2
Wisconsin	-	50	23	2.2	31.8	1.6	3.2	19.5	62.1	155.9	216.3	4.0	1.3	19.9
West North Central Division:														
Minnesota	-	21	10	1.3	14.5	1.0	1.7	9.8	28.5	97.4	124.8	2.2	0.7	8.8
Iowa	-	26	12	2.4	34.2	2.0	4.1	24.9	117.2	310.1	428.5	20.9	1.2	26.0
Missouri	-	25	10	2.3	34.2	1.7	4.4	23.7	97.8	295.6	393.4	4.2	1.2	32.6
Nebraska	-	20	12	1.2	17.2	1.0	2.0	13.5	33.4	100.5	132.2	3.0	1.1	22.8
Kansas	-	14	10	1.6	24.0	1.3	2.6	17.4	53.7	223.5	276.5	(D)	1.0	13.4

See footnotes at end of table

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS—Con.													
South Atlantic Division:													
Maryland	–	19	13	0.8	10.4	0.6	1.2	6.8	21.6	72.2	93.2	1.9	(NA)	(D)
Virginia	–	17	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
North Carolina	E1	45	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	18.9
Georgia	–	37	16	1.7	19.8	1.3	2.5	13.2	41.3	151.7	192.7	2.0	1.0	13.7
Florida	–	42	15	1.3	13.9	1.0	2.1	9.7	31.8	177.7	209.3	1.2	1.9	30.0
East South Central Division:														
Tennessee	–	39	12	1.8	24.7	1.3	2.5	17.1	55.7	210.1	266.7	1.3	0.9	20.2
Alabama	–	17	8	0.6	6.7	0.5	0.9	4.6	14.1	40.2	54.4	(D)	(NA)	(D)
Mississippi	E3	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Arkansas	–	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana	E1	24	5	0.6	6.1	0.4	0.7	3.4	10.8	36.2	46.8	0.8	0.6	10.6
Oklahoma	–	15	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Texas	–	76	32	3.4	39.7	2.5	5.1	26.5	95.6	346.8	439.9	(D)	(NA)	(D)
Mountain Division:														
Colorado	–	22	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
Washington	–	9	3	0.2	3.1	0.2	0.3	2.6	8.6	8.9	17.4	0.4	(NA)	(D)
Oregon	–	15	7	1.0	12.6	0.7	1.4	8.4	34.5	110.7	144.6	1.4	1.2	19.7
California	–	113	54	6.1	88.9	4.5	8.7	59.8	193.7	532.8	726.3	10.4	(NA)	(D)
INDUSTRY 2016, POULTRY DRESSING PLANTS														
United States	–	**446**	**313**	**86.8**	**512.3**	**77.7**	**143.6**	**496.3**	**1 236.9**	**4 520.1**	**5 746.1**	**126.1**	**77.6**	**724.4**
New England Division:														
Maine	–	6	5	1.9	16.2	1.7	3.3	13.0	27.3	101.2	128.9	(D)	(NA)	(D)
Middle Atlantic Division:														
New York	–	12	5	0.4	3.4	0.4	0.6	2.6	7.1	18.8	25.4	(D)	(NA)	(D)
New Jersey	E4	7	5	0.9	6.4	0.8	1.5	5.4	11.0	21.1	31.7	2.2	(NA)	(D)
Pennsylvania	–	20	14	3.8	31.2	3.3	6.3	23.7	49.4	193.7	239.8	3.9	(NA)	(D)
East North Central Division:														
Ohio	E3	22	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Indiana	–	13	7	1.4	9.5	1.2	2.2	7.5	18.9	57.0	74.4	0.6	(NA)	(D)
Illinois	E1	7	2	0.3	1.9	0.2	0.5	1.5	3.2	6.9	9.9	0.1	0.8	5.4
Michigan	–	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Wisconsin	–	6	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	9.9
West North Central Division:														
Minnesota	–	13	12	3.2	21.2	2.9	5.2	17.4	46.2	160.7	210.0	1.6	(NA)	(D)
Iowa	–	12	6	1.2	8.4	1.1	2.0	7.2	16.1	84.3	100.1	0.2	0.9	9.0
Missouri	–	18	11	2.4	15.0	2.2	3.8	12.4	35.3	111.3	148.6	(D)	2.4	18.4
Nebraska	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Delaware	–	5	4	1.5	11.7	1.3	2.5	9.2	20.8	94.3	114.9	2.1	1.7	14.1
Maryland	–	12	11	3.3	24.4	2.9	4.9	18.3	45.1	174.2	220.3	2.8	2.9	21.1
Virginia	–	13	12	5.7	40.8	5.1	9.5	33.7	92.2	341.7	433.4	5.6	4.3	49.4
West Virginia	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
North Carolina	–	30	24	8.2	58.0	7.3	13.9	47.8	91.4	465.5	560.6	8.9	7.8	67.3
South Carolina	–	11	5	1.1	7.7	1.0	1.9	6.7	12.5	58.4	70.4	(D)	0.7	6.6
Georgia	–	30	27	9.6	69.6	8.5	15.5	54.8	131.6	464.7	590.3	9.5	8.7	77.8
Florida	–	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
East South Central Division:														
Kentucky	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	–	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Alabama	–	19	18	6.4	43.6	5.8	10.9	36.0	96.6	342.6	437.0	13.9	6.7	59.2
Mississippi	–	20	17	6.0	37.8	5.4	10.1	28.7	93.0	279.6	372.6	8.8	5.3	49.5
West South Central Division:														
Arkansas	–	36	32	9.7	64.5	9.0	17.3	55.1	120.8	536.0	650.8	10.5	8.2	64.6
Louisiana	–	8	4	1.1	7.3	0.9	1.8	5.6	16.8	70.0	84.7	0.9	1.8	22.2
Oklahoma	–	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	7.1
Texas	–	25	21	5.2	32.7	4.8	9.4	28.3	54.9	274.7	329.2	19.6	5.3	45.7
Mountain Division:														
Colorado	–	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
Washington	–	8	6	0.6	4.8	0.4	0.8	4.1	6.0	33.7	39.7	0.4	(NA)	(D)
Oregon	–	6	4	0.6	6.2	0.6	0.8	5.1	9.9	26.9	38.2	1.0	0.6	8.2
California	–	32	23	3.6	30.1	3.3	5.2	23.7	108.8	233.2	343.6	13.6	3.5	39.8

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2017, POULTRY AND EGG PROCESSING														
United States	-	**153**	**95**	**11.1**	**86.8**	**9.8**	**18.6**	**68.1**	**192.0**	**669.6**	**856.6**	**18.3**	**14.6**	**168.5**
Middle Atlantic Division:														
New York	E1	7	2	0.2	1.9	0.2	0.4	1.6	4.7	14.6	18.8	(D)	(NA)	(D)
New Jersey	-	8	5	0.7	6.2	0.6	1.1	4.3	13.8	53.3	66.8	1.1	(NA)	(D)
Pennsylvania	-	7	7	0.8	8.5	0.7	1.4	6.1	20.1	80.1	100.4	2.1	(NA)	(D)
East North Central Division:														
Ohio	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Indiana	-	8	2	0.2	1.1	0.2	0.3	1.0	2.6	8.1	10.6	0.1	(NA)	(NA)
Illinois	-	7	4	0.6	4.4	0.5	1.0	3.4	9.3	26.1	36.3	0.3	0.6	6.5
Wisconsin	E2	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:														
Minnesota	-	15	10	2.0	16.2	1.8	3.3	13.9	31.2	100.5	130.4	2.4	(NA)	(D)
Iowa	-	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	20.5
Missouri	-	7	5	0.4	3.4	0.4	0.7	2.6	12.7	36.5	49.4	(D)	0.2	2.4
South Dakota	-	3	3	0.3	1.1	0.3	0.3	0.9	3.5	10.3	13.4	0.1	(NA)	(NA)
Nebraska	-	7	4	1.0	7.8	1.0	2.0	6.7	11.6	40.2	50.3	1.8	(NA)	(D)
Kansas	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:														
Maryland	E1	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Virginia	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West Virginia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	-	9	7	0.8	6.2	0.6	1.3	4.5	13.7	48.8	62.6	1.2	1.0	5.9
Florida	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Division:														
Alabama	E1	4	3	0.4	2.8	0.4	0.7	2.2	4.7	17.8	23.1	(D)	(NA)	(D)
Mississippi	E1	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:														
Arkansas	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Texas	E5	13	5	0.3	2.0	0.2	0.5	1.6	4.9	18.0	22.5	(D)	(NA)	(NA)
Pacific Division:														
California	E3	11	9	0.5	3.6	0.4	0.8	2.8	8.9	22.0	30.7	0.2	(NA)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Meatpacking plants (SIC 2011)	Sausages and other prepared meats (SIC 2013)	Poultry dressing plants (SIC 2016)	Poultry and egg processing (SIC 2017)
Primary product specialization ratio[1]	percent	98	97	99	99
Coverage ratio[2]	do	84	60	92	73
All establishments	number	2 590	1 345	446	153
With 1 to 19 employees	do	1 853	775	133	58
With 20 to 99 employees	do	447	385	59	58
With 100 employees or more	do	290	185	254	37
All employees, average for year	1,000	146.2	65.0	86.8	11.1
Payroll for year, all employees	mil. dol.	2 110.6	891.9	612.3	86.8
Production workers:					
Average for year	1,000	116.5	50.1	77.7	9.8
March	do	115.9	48.8	71.7	9.4
May	do	116.3	49.6	75.6	9.7
August	do	115.9	51.0	81.6	9.8
November	do	117.8	50.8	81.7	10.2
Hours	millions	237.2	100.4	143.6	18.6
January to March	do	58.5	24.2	31.5	4.3
April to June	do	58.5	24.9	35.0	4.7
July to September	do	58.7	25.8	39.7	4.6
October to December	do	61.5	25.4	37.4	5.0
Wages	mil. dol.	1 625.9	626.6	496.3	68.1
Cost of materials, etc.	do	27 239.2	6 445.2	4 520.1	669.6
Materials, parts, containers, etc., consumed	do	24 624.7	5 312.2	4 337.9	596.9
Resales	do	2 339.9	1 058.6	102.0	57.9
Fuels consumed	do	92.2	28.2	27.9	4.7
Purchased electric energy	do	82.3	43.5	42.7	5.4
Contract work	do	100.1	2.6	9.6	4.8
Value of shipments, including resales	do	31 208.2	8 465.4	5 746.1	856.6
Value of resales	do	2 724.3	1 174.5	118.9	62.8
Value added by manufacture	do	4 010.0	2 039.0	1 236.9	192.0
Manufacturers' inventories:					
Beginning of year	do	651.2	375.1	188.3	58.6
Finished products	do	484.0	221.0	123.1	40.3
Work in process	do	58.6	41.1	17.7	2.2
Materials, supplies, fuel, etc.	do	108.6	112.9	47.4	16.1
End of year	do	700.1	406.4	206.8	66.3
Finished products	do	516.6	233.7	132.3	44.7
Work in process	do	67.0	47.2	19.4	2.8
Materials, supplies, fuel, etc.	do	116.5	125.5	55.2	18.8
Capital expenditures for plant and equipment	do	251.7	157.6	129.1	19.1
New capital expenditures	do	236.7	151.6	126.1	18.3
New buildings and other structures	do	63.6	40.4	36.6	4.2
New machinery and equipment	do	173.1	111.2	89.5	14.1
Used capital expenditures	do	15.0	6.1	3.0	0.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Meatpacking plants (SIC 2011)		Sausages and other prepared meats (SIC 2013)		Poultry dressing plants (SIC 2016)		Poultry and egg processing (SIC 2017)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	11.2	4	7.8	11	6.2	10	(0.7)	31
Response coverage ratio[2] (percent)	64.3	(X)	62.2	(X)	64.6	(X)	70.8	(X)
Machinery	48.1	4	28.3	7	30.2	5	(4.1)	18
Response coverage ratio[2] (percent)	65.7	(X)	65.4	(X)	66.3	(X)	71.0	(X)
Cost of purchased communication services	18.3	4	10.3	7	(6.3)	17	(0.9)	19
Response coverage ratio[2] (percent)	59.5	(X)	67.8	(X)	65.2	(X)	60.0	(X)
Rental payments	73.5	3	42.5	4	8.5	3	5.7	10
Buildings and other structures	18.9	8	18.4	8	25	9	1.9	12
Machinery and equipment	54.4	2	24.0	4	6.1	2	3.8	12
Supplemental labor costs	404.6	1	171.4	2	97.6	2	13.6	3
Legal costs	176.5	2	76.6	2	60.9	1	7.5	2
Voluntary costs	228.0	1	94.7	2	36.7	4	6.1	6
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	947.4	2	401.2	3	248.4	2	28.6	8
New capital expenditures	67.5	6	35.6	5	36.6	3	3.9	7
Used capital expenditures	4.0	8	(3.3)	34	1.7	11	(0.4)	53
Retirements	44.4	13	(14.2)	24	(9.2)	32	(0.4)	20
End of year	974.6	2	425.9	2	277.5	1	32.5	8
Machinery and equipment:								
Beginning of year	1,202.2	2	602.6	2	428.0	1	64.0	7
New capital expenditures	175.4	3	114.4	6	89.8	1	12.2	8
Automobiles, trucks, etc., for highway use[3]	(17.0)	(A)	(7.4)	(A)	(8.0)	(A)	(0.8)	(A)
Computers and peripheral data processing equipment[3]	(2.7)	(A)	(1.9)	(A)	(2.9)	(A)	(Z)	(A)
All other[3]	(120.0)	17	(71.5)	28	(59.8)	33	(8.4)	(A)
New machinery and equipment, n.s.k.[4]	(35.7)	56	(33.6)	60	(19.0)	(A)	(3.0)	(A)
Used capital expenditures	11.0	4	3.4	7	(1.6)	16	(0.4)	33
Retirements	67.5	5	30.5	7	22.0	4	(1.7)	39
End of year	1,321.1	1	690.0	2	497.4	1	74.9	6
Total gross value of depreciable assets:								
Beginning of year	2,149.6	2	1,004.0	2	676.4	1	92.6	5
New capital expenditures	242.9	3	150.0	5	126.4	2	16.1	7
Used capital expenditures	15.0	5	(6.7)	17	3.3	13	(0.8)	37
Retirements	111.7	8	44.7	9	31.2	11	(2.1)	33
End of year	2,295.9	1	1,116.0	2	774.9	1	107.4	5
Depreciation charges during 1977	164.2	2	79.4	2	64.2	2	(8.3)	16
Buildings and other structures	50.8	2	19.8	3	15.8	2	1.7	11
Machinery and equipment	113.4	2	59.6	3	48.4	3	6.6	12

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2011, MEAT PACKING PLANTS												
Total	-	**2 590**	**146.2**	**2 110.6**	**116.5**	**237.2**	**1 625.9**	**4 010.0**	**27 239.2**	**31 208.2**	**236.7**	**700.1**
Establishments with an average of—												
1 to 4 employees	E8	1 268	2.0	28.1	2.0	3.2	22.1	42.7	272.1	325.7	2.0	6.7
5 to 9 employees	E8	330	2.2	28.0	1.8	3.6	21.7	42.3	289.5	332.2	2.4	7.0
10 to 19 employees	E6	255	3.4	43.2	2.7	5.5	33.2	81.0	440.7	523.3	3.9	11.0
20 to 49 employees	E2	256	8.4	103.0	6.6	13.5	74.3	224.0	1 259.6	1 482.2	11.4	32.4
50 to 99 employees	-	191	13.4	174.9	10.5	21.9	127.1	407.0	2 777.5	3 174.8	23.6	69.9
100 to 249 employees	-	149	21.8	293.7	17.5	36.8	223.0	652.8	5 102.7	5 749.7	50.9	113.4
250 to 499 employees	-	79	28.3	387.1	22.8	47.7	301.8	689.8	6 052.3	6 731.6	60.2	127.1
500 to 999 employees	-	40	28.0	416.1	22.3	46.5	328.1	762.6	5 146.6	5 893.3	37.2	144.1
1,000 to 2,499 employees	-	18	25.5	393.1	20.1	40.4	306.7	694.2	4 541.1	5 230.3	32.9	119.0
2,500 employees or more	-	4	13.3	243.5	10.1	18.2	188.0	413.7	1 357.0	1 765.1	12.1	69.5
Covered by administrative records[2]	E0	1 457	4.9	67.3	4.2	8.0	52.0	107.6	682.0	789.5	4.6	16.6
INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS												
Total	-	**1 345**	**65.0**	**891.9**	**50.1**	**100.4**	**626.6**	**2 039.0**	**6 445.2**	**8 465.4**	**151.6**	**405.4**
Establishments with an average of—												
1 to 4 employees	E8	428	0.7	8.8	0.7	1.0	5.9	14.7	58.4	77.4	1.7	3.7
5 to 9 employees	E7	182	1.3	15.6	1.0	1.9	10.8	32.0	96.4	128.5	1.6	5.8
10 to 19 employees	E4	165	2.3	28.5	1.7	3.2	18.2	59.8	165.3	225.4	3.8	10.5
20 to 49 employees	E1	239	7.8	98.4	5.6	11.2	61.2	224.9	615.9	839.1	18.3	40.5
50 to 99 employees	-	146	10.1	121.1	7.7	15.1	82.2	246.3	826.5	1 072.1	16.4	53.8
100 to 249 employees	-	129	19.6	264.2	15.3	30.4	183.9	832.0	2 085.4	2 699.2	45.9	130.3
250 to 499 employees	-	44	15.2	228.9	11.9	24.6	171.6	522.6	1 656.6	2 175.5	32.2	88.8
500 to 999 employees	-	11	(8.0)	(126.3)	(6.3)	(13.0)	(92.8)	(306.6)	(940.7)	(1 248.3)	(31.6)	(72.8)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	536	2.1	27.6	1.7	3.2	18.7	56.4	172.6	229.0	3.2	10.8
INDUSTRY 2016, POULTRY DRESSING PLANTS												
Total	-	**446**	**86.8**	**612.3**	**77.7**	**143.6**	**496.3**	**1 236.9**	**4 520.1**	**5 746.1**	**126.1**	**206.8**
Establishments with an average of—												
1 to 4 employees	E8	83	0.1	0.8	0.1	0.2	0.6	(S)	5.4	7.0	0.1	0.3
5 to 9 employees	E7	20	0.1	1.0	0.1	0.2	0.7	1.4	6.9	9.2	0.1	0.3
10 to 19 employees	E3	29	0.4	3.0	0.3	0.8	2.4	7.2	45.1	51.7	0.9	2.5
20 to 49 employees	E1	22	0.7	4.6	0.6	1.0	3.6	14.6	43.3	57.5	0.5	2.9
50 to 99 employees	-	37	2.9	20.4	2.6	4.5	15.4	48.9	142.2	195.4	2.1	10.8
100 to 249 employees	-	123	21.4	145.1	19.3	34.5	119.1	275.0	1 117.5	1 393.9	21.9	59.5
250 to 499 employees	-	90	31.9	224.6	28.5	53.2	180.9	513.6	1 753.9	2 252.5	51.2	86.3
500 to 999 employees	-	38	24.2	175.0	21.6	41.1	143.0	300.5	1 163.8	1 461.5	45.0	37.0
1,000 to 2,499 employees	-	4	5.0	38.0	4.5	8.2	30.7	75.9	242.0	317.5	4.2	7.2
Covered by administrative records[2]	E0	97	0.6	4.0	0.5	0.9	3.2	8.1	27.5	35.6	0.6	1.4
INDUSTRY 2017, POULTRY AND EGG PROCESSING												
Total	-	**153**	**11.1**	**86.8**	**9.8**	**18.6**	**68.1**	**192.0**	**669.6**	**856.6**	**18.3**	**66.3**
Establishments with an average of—												
1 to 4 employees	E4	21	(Z)	0.2	(Z)	0.1	0.2	0.2	1.9	2.5	0.1	0.1
5 to 9 employees	E5	12	0.1	0.6	0.1	0.1	0.5	1.6	6.3	7.7	0.1	0.6
10 to 19 employees	E1	25	0.4	2.7	0.3	0.5	2.0	5.8	34.4	39.9	0.7	1.6
20 to 49 employees	E1	36	1.2	8.9	1.1	2.1	7.1	24.6	91.5	115.4	2.3	7.3
50 to 99 employees	E1	22	1.6	11.0	1.4	2.7	8.7	32.8	113.8	143.9	2.1	8.2
100 to 249 employees	-	29	4.6	37.4	4.0	7.4	28.4	81.7	293.3	374.9	6.3	30.3
250 to 499 employees	-	7	(3.2)	(26.1)	(2.9)	(5.7)	(21.3)	(45.4)	(128.5)	(172.4)	(6.7)	(18.2)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	24	0.1	1.0	0.1	0.2	0.8	2.0	7.4	9.4	0.1	0.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons, e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2011	**Meat packing plants:**										
	Entire industry	2 590	146.2	2 110.6	116.5	237.2	1 625.9	4 010.0	27 239.2	31 208.2	236.7
	Establishments with 75 percent specialization or more	2 505	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20111	Beef, not canned or made into sausage:										
	Establishments with this product class primary	469	67.1	972.4	53.6	113.4	758.6	1 947.8	16 863.7	18 790.2	117.8
	Establishments with 75 percent specialization or more in class	354	41.0	582.2	33.7	73.0	459.0	1 271.6	13 138.3	14 394.4	93.2
20112	Veal, not canned or made into sausage:										
	Establishments with this product class primary	25	1.5	18.0	1.2	2.4	12.8	36.6	244.8	280.1	5.7
	Establishments with 75 percent specialization or more in class	15	0.8	10.2	0.6	1.3	7.2	23.4	139.4	162.7	(D)
20113	Lamb and mutton, not canned or made into sausage:										
	Establishments with this product class primary	13	0.9	12.7	0.7	1.3	9.9	23.7	184.0	207.5	0.5
	Establishments with 75 percent specialization or more in class	8	0.6	8.6	0.5	0.9	7.0	14.2	123.5	137.8	(D)
20114	Pork, fresh and frozen:										
	Establishments with this product class primary	112	34.0	518.3	27.7	54.3	412.8	870.6	5 686.2	6 536.5	44.6
	Establishments with 75 percent specialization or more in class	58	10.6	162.3	9.0	18.0	135.4	220.9	2 582.6	2 793.9	16.1
20116	Pork, processed or cured, not canned or made into sausage:										
	Establishments with this product class primary	27	11.5	145.4	9.2	19.2	109.9	267.3	1 180.6	1 445.6	20.7
20117	Sausage and similar products, not canned:										
	Establishments with this product class primary	77	15.0	211.9	11.0	22.1	146.2	462.3	1 171.7	1 632.0	30.6
	Establishments with 75 percent specialization or more in class	40	3.2	33.6	2.1	4.4	20.4	83.7	209.2	292.4	(D)
20118	Canned meats, containing 20 percent or more meat:										
	Establishments with this product class primary	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20119	Hides, skins, and pelts:										
	Establishments with this product class primary	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2013	**Sausages and other prepared meats:**										
	Entire industry	1 345	65.0	891.9	50.1	100.4	626.6	2 039.0	6 445.2	8 485.4	151.6
	Establishments with 75 percent specialization or more	1 293	62.3	856.2	48.0	96.3	609.5	1 955.3	6 261.7	8 194.8	143.3
20136	Pork, processed, frozen or cured, not canned:										
	Establishments with this product class primary	122	14.2	210.1	11.1	23.5	152.9	406.2	1 708.8	2 109.6	22.3
	Establishments with 75 percent specialization or more in class	78	6.8	92.9	5.5	12.0	69.3	177.2	850.3	1 023.9	11.7
20137	Sausage and similar products, not canned:										
	Establishments with this product class primary	301	28.6	416.1	21.3	42.5	285.7	912.4	2 585.7	3 494.0	74.4
	Establishments with 75 percent specialization or more in class	246	21.0	302.9	16.0	31.8	209.9	706.6	1 814.7	2 516.6	60.0
20138	Canned meats, containing 20 percent or more meat:										
	Establishments with this product class primary	34	4.4	55.1	3.6	7.4	41.3	220.8	498.1	717.5	13.1
	Establishments with 75 percent specialization or more in class	25	3.0	41.4	2.5	4.9	32.5	163.2	389.2	551.8	9.2
20139	Natural sausage casings:										
	Establishments with this product class primary	7	0.3	2.1	0.2	0.4	1.4	3.4	8.3	11.8	(D)
	Establishments with 75 percent specialization or more in class	7	0.3	2.1	0.2	0.4	1.4	3.4	8.3	11.8	(D)
2016	**Poultry dressing plants:**										
	Entire industry	446	86.8	612.3	77.7	143.6	496.3	1 236.9	4 520.1	5 746.1	126.1
	Establishments with 75 percent specialization or more	411	84.4	595.2	75.6	139.4	480.9	1 199.8	4 460.0	5 646.9	(D)
20161	Young chickens:										
	Establishments with this product class primary	191	60.2	427.9	53.8	102.0	346.5	872.1	3 269.7	4 125.0	83.3
	Establishments with 75 percent specialization or more in class	182	58.9	405.7	50.8	96.1	328.2	837.1	3 129.5	3 951.0	81.6
20162	Hens and/or fowl:										
	Establishments with this product class primary	24	4.5	29.7	4.2	7.0	23.8	51.4	154.6	203.1	3.0
	Establishments with 75 percent specialization or more in class	20	3.2	20.7	3.0	5.5	16.5	36.7	127.8	162.8	2.5
20163	Turkeys:										
	Establishments with this product class primary	56	13.2	89.2	11.6	19.6	71.3	176.0	774.8	961.4	27.9
	Establishments with 75 percent specialization or more in class	48	10.5	68.9	9.3	15.3	54.7	147.8	606.8	764.5	(D)
20164	Other poultry and small game:										
	Establishments with this product class primary	8	1.0	8.4	0.8	1.5	6.7	22.5	27.4	48.6	0.4
	Establishments with 75 percent specialization or more in class	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20165	Processed poultry and small game:										
	Establishments with this product class primary	14	4.5	33.2	4.2	7.9	27.5	63.5	200.8	262.6	4.7
	Establishments with 75 percent specialization or more in class	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2017	**Poultry and egg processing:**										
	Entire industry	153	11.1	86.8	9.8	18.6	68.1	192.0	599.5	856.6	18.3
	Establishments with 75 percent specialization or more	146	10.7	84.3	9.4	17.9	65.9	185.9	658.2	838.6	(D)
20171	Young chickens, frozen:										
	Establishments with this product class primary	6	0.8	5.9	0.7	1.3	4.4	13.4	35.9	49.7	3.1
	Establishments with 75 percent specialization or more in class	6	0.8	5.9	0.7	1.3	4.4	13.4	35.9	49.7	3.1
20172	Hens and/or fowl, frozen:										
	Establishments with this product class primary	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20173	Turkeys, frozen:										
	Establishments with this product class primary	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20175	Processed poultry and small game:										
	Establishments with this product class primary	28	5.4	44.4	4.8	9.2	35.6	89.8	270.0	361.6	7.0
	Establishments with 75 percent specialization or more in class	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20179	Liquid, dried, and frozen eggs:										
	Establishments with this product class primary	44	3.1	23.5	2.7	5.0	17.8	56.9	258.5	309.2	4.5
	Establishments with 75 percent specialization or more in class	43	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

- Represents zero (D) Withheld to avoid disclosing operations of individual companies (NA) Not available n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards (X) Not applicable (Z) Less than 50 thousand dollars or hours, under 50 employees

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.
[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2011	Meat packing plants.....1977..	31,208.2	27,750.4	650.0	2,807.8	98	[1]33,074.3	27,750.4	[1]5,323.9	84
	1972..	23,003.4	21,559.7	390.5	1,053.2	98	[1]25,068.5	21,559.7	[1]3,508.8	84
	1967..	15,576.3	14,619.2	251.0	705.8	98	[1]16,981.2	14,619.2	[1]2,362.0	85
2013	Sausages and other prepared meats.....1977..	8,465.4	7,071.9	177.3	1,216.2	97	[2]11,663.0	7,071.9	[2]4,591.1	60
	1972..	4,632.4	3,790.0	119.2	723.2	97	[2]7,278.5	3,790.0	[2]3,488.5	52
	1967..	3,007.7	2,500.4	94.4	412.9	96	[2]5,418.2	2,500.4	[2]2,917.8	46
2016	Poultry dressing plants.....1977..	5,746.1	5,487.4	73.9	184.8	[3]99	[4]5,949.6	5,487.4	[4]462.2	[3]92
	[5]1972..	3,254.1	2,981.6	69.2	203.3	97	3,071.5	2,981.6	89.9	97
	[6]1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2017	Poultry and egg processing.....1977..	856.6	778.6	9.7	68.4	[3]99	[7]1,066.5	778.6	[7]287.9	[3]73
	[5]1972..	588.1	462.8	88.2	37.1	84	525.5	462.8	62.7	88
	[6]1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(NA) Not available.
[1]Includes shipments from product classes 20136, 20137, and 20138. Data are combined in this manner only on this table for purposes of computing coverage ratio.
[2]Includes shipments from product classes 20116, 20117, and 20118.
[3]Not comparable to 1972 ratio due to changes in product classes in industries 2016 and 2017.
[4]Includes shipments from product classes 20171, 20172, 20173, and 20174. Data are combined in this manner only on this table for purposes of computing coverage ratio.
[5]New SIC basis.
[6]In 1967, new industry codes 2016 and 2017 were included on old SIC basis in industry 2015.
[7]Includes shipments from product class 20165.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Meat packing plants (SIC 2011)	Sausages and other prepared meats (SIC 2013)	Poultry dressing plants (SIC 2016)	Poultry and egg processing (SIC 2017)	Other industries
	Total	(X)	31,208.2	8,465.4	5,746.1	856.6	(X)
	Primary products	(X)	27,750.4	7,071.9	5,487.4	778.6	(X)
	Secondary products	(X)	650.0	177.3	73.9	9.7	(X)
	Miscellaneous receipts	(X)	2,807.8	1,216.2	184.8	68.4	(X)
2011-	Meat packing plant products	23,359.4	[1]23,237.8	74.4	(D)	-	(D)
20111	Beef, not canned or made into sausage	14,095.8	14,053.3	(D)	(D)	-	-
20112	Veal, not canned or made into sausage	319.3	(D)	(D)	-	-	-
20113	Lamb and mutton, not canned or made into sausage	329.5	329.5	-	-	-	-
20114	Pork, fresh and frozen	5,647.5	5,626.1	(D)	-	-	(D)
20115	Lard	214.1	(D)	(D)	-	-	(D)
20119	Hides, skins, and pelts	807.7	763.1	(D)	-	-	(D)
2011A	Miscellaneous byproducts, except sausage casings	235.7	227.2	(D)	-	-	(D)
20110	Miscellaneous byproducts of meat packing plants	1,709.8	1,709.8	-	-	-	-
2013-	Sausages and other prepared meats	11,663.0	4,547.5	7,071.9	-	(D)	(D)
20116 20136	Pork, processed or cured, not canned or made into sausage	3,778.6	2,093.6	(D)	-	-	(D)
20117 20137	Sausage and similar products, not canned	4,680.0	(D)	2,816.0	-	-	(D)
20118 20138	Canned meats, containing 20 percent or more meat	1,256.3	(D)	(D)	-	(D)	(D)
20139	Natural sausage casings	33.2	15.6	(D)	-	-	(D)
20130	Meat processing plant products, n.s.k.	1,914.9	(D)	1,881.8	-	-	(D)
2016-	Dressed poultry and small game	5,291.9	(D)	(D)	[2]5,180.9	85.8	(D)
20161 20171	Young chickens	3,961.1	(D)	-	3,899.4	(D)	(D)
20162 20172	Hens and/or fowl	229.5	-	-	214.5	(D)	(D)
20163 20173	Turkeys	927.3	(D)	-	893.9	(D)	(D)
20164 20174	Other poultry and small game	57.9	-	(D)	56.9	(D)	-
20160	Poultry dressing plant products, n.s.k.	116.1	-	-	116.1	-	-
2017-	Processed poultry and eggs	1,066.5	(D)	(D)	334.6	[3]693.4	(D)
20175 20165	Processed poultry and small game	657.7	(D)	(D)	(D)	300.4	(D)
20179	Liquid, dried, and frozen eggs	312.7	-	-	(D)	(D)	(D)
20170	Poultry and egg processing products, n.s.k.	96.1	-	-	-	(D)	(D)
	Other shipments by 4-digit product group:						
2032-	Canned specialties	(X)	(D)	19.6	-	-	(X)
2033-	Canned fruits and vegetables	(X)	-	6.5	-	-	(X)
2035-	Pickles, sauces, and salad dressings	(X)	-	(D)	-	-	(X)
2037-	Frozen fruits and vegetables	(X)	-	(D)	(D)	(D)	(X)
2038-	Frozen specialties	(X)	8.9	(D)	(D)	-	(X)
2047-	Dog, cat, and other pet food	(X)	23.1	-	(D)	-	(X)
2048-	Prepared feeds, n.e.c.	(X)	-	-	(D)	-	(X)
2077-	Animal and marine fats and oils	(X)	545.3	.6	29.6	(D)	(X)
2079-	Shortening and cooking oils	(X)	25.5	-	-	-	(X)
2099-	Food preparations, n.e.c.	(X)	(D)	(D)	-	-	(X)
3079-	Miscellaneous plastics products	(X)	(D)	-	-	-	(X)
	Miscellaneous receipts:						
93000 00	Contract work	(X)	42.3	28.6	33.7	(D)	(X)
95120 00	Shell egg sales	(X)	-	-	(D)	(D)	(X)
99980 98	Other miscellaneous receipts	(X)	41.3	13.2	(D)	.5	(X)
99989 00	Resales	(X)	2,724.3	1,174.5	118.9	62.8	(X)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2011-	2077 Animal and marine fats and oils	39.5
2013-	2038 Frozen specialties	(D)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products--Con.	
2016-	2022 Cheese, natural and processed	(D)
	2038 Frozen specialties	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k Not specified by kind. (X) Not applicable.

[1]Excludes sausage and other prepared meats made in slaughtering plant; included with industry 2013.
[2]Excludes processed poultry and small game made in poultry slaughtering plant; included with industry 2017.
[3]Excludes dressed poultry and small game made in poultry processing plant; included with industry 2016.

Table 6a. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments [1]		Product shipments	
				Quantity [2]	Value (million dollars)	Quantity	Value (million dollars)
	MEAT PACKING PLANTS						
2011- --	Total [3]	.....	(NA)	(X)	[4]23,359.4	(X)	[4]18,284.4
20111 --	Beef, not canned or made into sausage	Million lb....	(NA)	(X)	14,095.8	20,584.2	11,790.1
20111 12	Whole carcass beef		377	16,072.7	9,599.1	14,651.5	8,122.6
20111 17	Primal and fabricated cuts		212	3,523.8	2,614.7	3,658.2	2,462.8
20111 31	Boneless beef, including hamburger		222	1,640.9	1,179.7	1,013.9	708.6
20111 51	Variety meats (edible organs)		142	965.7	296.3	907.4	286.1
20111 71	Other edible beef, including corned beef		34	62.0	55.2	58.4	41.1
20111 00	Beef, not canned or made into sausage, n.s.k		(NA)	(X)	350.8	[5]294.8	168.9
20112 --	Veal, not canned or made into sausage		(NA)	(X)	319.3	322.9	241.5
20112 12	Whole carcass veal		58	333.5	254.5	267.7	193.2
20112 17	Primal cuts, fabricated cuts, and boneless veal		22	49.8	45.6	38.2	35.3
20112 61	Other edible veal, including edible organs		13	22.3	9.0	11.8	9.1
20112 00	Veal, not canned or made into sausage, n.s.k		(NA)	(X)	10.2	[5]5.2	3.9
20113 --	Lamb and mutton, not canned or made into sausage		(NA)	(X)	329.5	539.9	330.4
20113 12	Whole carcass lamb and mutton		30	285.3	277.6	438.8	273.6
20113 52	Primal cuts and all other edible lamb and mutton, except canned meats and sausage		20	55.2	51.3	100.0	56.1
20113 00	Lamb and mutton, not canned or made into sausage, n.s.k		(NA)	(X)	.6	[5]1.1	.7
20114 --	Pork, fresh and frozen		(NA)	(X)	5,647.5	9,623.6	4,221.0
20114 12	Whole carcass pork		63	1,129.0	672.4	1,309.5	509.0
20114 17	Primal cuts, including trimmings		140	6,768.4	4,695.1	7,537.8	3,509.5
20114 51	Variety meats (fresh edible organs)		55	766.5	211.1	741.8	187.3
20114 00	Pork, fresh and frozen, n.s.k		(NA)	(X)	68.9	[5]34.5	15.2
20115 --	Lard [6]		(NA)	(X)	214.1	1,390.1	171.0
20115 13	Consumer sizes (containers of 3 lb or less)		23	91.3	26.3	183.6	31.8
20115 17	Commercial sizes (containers of more than 3 lb)		64	808.6	182.5	1,204.0	138.9
20115 00	Lard, n.s.k	Million lb....	(NA)	(X)	5.3	[5]2.5	.3
20119 --	Hides, skins, and pelts	Millions.....	(NA)	(X)	807.7	51.2	580.4
20119 12	Cattle, except kip		302	*35.9	717.7	38.5	532.4
20119 13	Kip		4	.3	2.5		
20119 22	Calf, except kip		25	(S)	15.0		
20119 51	Sheep and lamb		21	5.8	42.8	11.0	31.4
20119 97	Other hides, skins, and pelts, except kip		22	(S)	17.4	1.4	13.8
20119 00	Hides, skins, and pelts, n.s.k	Millions.....	(NA)	(X)	12.3	[5].3	2.8
2011A --	Miscellaneous byproducts of meatpacking plants, except sausage casings	.....	(NA)	(X)	235.7	(X)	126.8
2011A 15	Other fresh and frozen meats, except horsemeat	Million lb....	8	(S)	20.4	60.7	9.7
2011A 31	Pulled wool		4	(S)	2.7	20.8	4.6
2011A 41	Edible tallow and stearin [6]	Million lb....	35	419.7	80.4	580.5	58.7
2011A 51	Glue stock (semimanufactured materials to be made into glue)	.....	4	(X)	10.9	(X)	(X)
2011A 55	Killing floor offal, scrap, bones	.....	(NA)	(X)	121.3	(X)	53.8
20110 00	Meat packing plant products, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	920.3	(X)	619.7
20110 02	Meat packing plant products, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	789.5	(X)	203.5
	SAUSAGES AND OTHER PREPARED MEATS						
2013- --	Total [3]	.....	(NA)	(X)	[7]11,663.0	(X)	[7]7,278.5
20116 --	Pork, processed or cured, including frozen (not canned or made into sausage)	Million lb....	(NA)	(X)	3,778.6	3,807.4	2,413.5
20136 --			(NA)	(X)	2,095.3	2,275.1	1,443.3
20116 --	Made in slaughtering plants		(NA)	(X)	1,683.3	1,532.3	970.2
20136 --	Made elsewhere						
20116 12 20136 12	Sweet pickled or dry cured (not smoked or cooked)		30	251.9	204.8	133.9	68.8
20116 22 20136 22	Dry salt pork		45	98.7	51.2	123.6	41.5
	Smoked pork (not otherwise cooked):						
20116 31 20136 31	Hams and picnics, except canned		223	1,443.0	1,570.0	1,426.6	955.4
20116 35 20136 35	Slab bacon		127	181.5	140.1	354.7	183.4
20116 41 20136 41	Sliced bacon		143	1,305.0	1,233.3	1,312.0	811.0
20116 52 20136 52	Other smoked pork	Million lb....	88	214.1	215.2	256.3	164.2

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	SAUSAGES AND OTHER PREPARED MEATS--Con.						
20116 -- / 20136 --	Pork, processed or cured, including frozen (not canned or made into sausage)--Con.						
20116 61 / 20136 61	Boiled ham, barbecue pork, and other cooked pork, except canned meats and sausage	Million lb.	92	201.8	300.0	141.3	152.1
20116 00 / 20136 00	Pork, processed or cured, n.s.k.		(NA)	(X)	64.0	[5]59.0	37.1
20117 -- / 20137 --	Sausage and similar products (not canned)		(NA)	(X)	4,680.0	4,623.6	3,264.3
20117 --	Made in slaughtering plants		(NA)	(X)	1,859.3	2,023.5	1,353.4
20137 --	Made elsewhere		(NA)	(X)	2,820.7	2,600.1	1,911.2
20117 11 / 20137 11	Fresh sausage, pork sausage, breakfast links, etc.		271	928.3	863.8	766.9	524.0
20117 17 / 20137 17	Dry and semidry (salami, cervelat, pepperoni, summer sausage, pork roll, etc.)		136	372.4	449.7	306.8	309.7
20117 21 / 20137 21	Frankfurters and weiners		280	1,502.1	1,201.8	1,241.8	795.9
20117 35 / 20137 35	Other sausage, smoked or cooked (bologna, liverwurst, Polish sausage, packaged luncheon meats, minced roll, smoked pork sausage, etc.)		346	2,037.0	1,980.6	1,968.3	1,408.7
20117 91 / 20137 91	Jellied goods and similar preparations, not canned (head cheese, meat loaves, scrapple, puddings, chili con carne, imitation sausage, etc.)		91	81.9	60.3	231.7	149.7
20117 00 / 20137 00	Sausage and similar products, n.s.k.		(NA)	(X)	123.8	[5]108.1	76.3
20118 -- / 20138 --	Canned meats (except dog and cat food) containing 20-percent or more meat[8]		(NA)	1,188.5	1,256.3	1,768.9	1,106.3
20118 19	Made in slaughtering plants		18	468.3	561.7	992.0	622.1
20138 19	Made elsewhere		49	720.2	694.6	776.9	484.2
20139 --	Natural sausage casings[9]		(NA)	(X)	33.2	163.8	114.8
20139 11	Beef sausage casings		3	3.5	2.9	40.8	42.7
20139 31	Hog sausage casings		24	32.2	19.9	68.5	34.7
20139 51	Sheep and lamb sausage casings		5	(D)	(D)	28.7	16.5
20139 61	Other animal casings		1	(D)	(D)	14.8	13.1
20139 00	Natural sausage casings, n.s.k.		(NA)	(X)	6.8	[5]11.0	7.8
20130 98	Other processed frozen or cooked meats, such as corned beef, frozen portion control, frozen ground meat patties, frozen primal and fabricated cuts, frozen variety meats, etc., not made in meat packing plants	Million lb.	165	1,360.6	1,131.7	(X)	[10]305.4
20130 00	Processed meat, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	554.2		
20130 02	Processed meat, n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	229.0	(X)	73.8
	POULTRY DRESSING PLANTS						
2016 -- / 2017 pt.	Total		(NA)	(X)	5,291.9	(X)	3,071.5
20161 -- / 20171 --	Young chickens (usually under 20 weeks of age, including broilers, fryers, roasters, and capons)	Million lb.	(NA)	(X)	3,961.1	7,582.8	2,198.0
20161 --	Processed in slaughtering plants		(NA)	(X)	3,961.1	7,582.8	2,198.0
20171 --	Processed elsewhere					(11)	(11)
	Broilers and fryers:						
20161 33	Wet ice pack, bulk, whole, and parts		103	6,146.2	2,481.1	5,654.8	1,581.2
20161 34	Dry ice pack, bulk, whole, and parts		32	**609.9	251.5	703.4	206.5
20161 36	Tray pack (consumer packaged), chilled whole birds, including parts		36	1,437.4	714.2	1,042.8	354.8
	Other, including frozen whole and parts		(NA)	796.5	372.6	(X)	(X)
20161 39	Processed in slaughtering plants		37	758.8	339.3	(X)	(X)
20171 39	Processed elsewhere		3	37.7	33.3	(X)	(X)
	Roasters and capons, including frozen						
20161 41	Processed in slaughtering plants		8	87.4	49.0	50.4	17.4
20171 41	Processed elsewhere	Million lb.				(11)	(11)
	Young chickens, n.s.k.		(NA)	(X)	92.7	131.4	38.1
20161 00	Processed in slaughtering plants		(NA)	(X)	80.6	131.4	38.1
20171 00	Processed elsewhere		(NA)	(X)	12.1	(11)	(11)

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
20162 -- 20172 --	Hens and/or fowl	Million lb.	(NA)	(X)	229.5	562.9	147.8
20162 --	Processed in slaughtering plants		(NA)	(X)	229.5	562.9	147.8
20172 --	Processed elsewhere					(11)	(11)
	Egg producing type, including frozen		(NA)	(X)	142.2	321.6	78.2
20162 21	Processed in slaughtering plants		21	393.8	142.0	321.6	78.2
20172 21	Processed elsewhere		1	.8	.2	(11)	(11)
	Breeder type, including frozen		22	(S)	66.3	241.6	69.6
20162 23	Processed in slaughtering plants		22	(S)	66.3	241.6	69.6
20172 23	Processed elsewhere	Million lb.				(11)	(11)
	Hens and/or fowl, n.s.k.		(NA)	(X)	21.0	-	-
20162 00	Processed in slaughtering plants		(NA)	(X)	21.0	-	-
20172 00	Processed elsewhere					(11)	(11)
20163 -- 20173 --	Turkeys	Million lb.	(NA)	(X)	927.3	1,488.0	538.9
20163 --	Processed in slaughtering plants		(NA)	(X)	927.3	1,488.0	538.9
20173 --	Processed elsewhere					(11)	(11)
	Fryer-roaster turkeys (usually under 16 weeks of age; dressed weight), including frozen		12	88.8	54.6	101.4	41.6
20163 21	Processed in slaughtering plants		12	88.8	54.6	101.4	41.6
20173 21	Processed elsewhere					(11)	(11)
	Young turkeys (mature; usually 4 to 7 months of age; dressed weight), including frozen		42	1,442.9	812.5	1,325.8	476.2
20163 23	Processed in slaughtering plants		42	1,442.9	812.5	1,325.8	476.2
20173 23	Processed elsewhere					(11)	(11)
	Old turkeys (breeders; usually over 12 months of age; dressed weight), including frozen		11	69.2	36.9	30.4	10.1
20163 25	Processed in slaughtering plants		11	69.2	36.9	30.4	10.1
20173 25	Processed elswhere	Million lb.				(11)	(11)
	Turkeys, n.s.k.		(NA)	(X)	23.3	30.4	11.0
20163 00	Processed in slaughtering plants		(NA)	(X)	23.3	30.4	11.0
20173 00	Processed elsewhere					(11)	(11)
20164 -- 20174 --	Other poultry and small game	Million lb.	(NA)	(X)	57.9	42.5	23.7
20164 --	Processed in slaughtering plants		(NA)	(X)	57.9	42.5	23.7
20174 --	Processed elsewhere					(11)	(11)
	Ducks (dressed weight), including frozen		9	**47.5	33.3	32.6	17.2
20164 14	Processed in slaughtering plants		9	**47.5	33.3	32.6	17.2
20174 14	Processed elsewhere		-	-	-	(11)	(11)
	Other poultry and small game (geese, rabbits, etc.; dressed weight), including frozen		8	36.8	22.9	4.9	3.7
20164 16	Processed in slaughtering plants		8	36.8	22.9	4.9	3.7
20174 16	Processed elsewhere	Million lb.				(11)	(11)
	Other poultry and small game, n.s.k.		(NA)	(X)	1.7	5.0	2.8
20164 00	Processed in slaughtering plants		(NA)	(X)	1.7	5.0	2.8
20174 00	Processed elsewhere		-	-	-	(11)	(11)
20160 00	Young chickens, broilers, fryers, roasters, capons, hens, fowl, and turkeys, n.s.k., typically for establishments with 10 employees or more		(NA)	(X)	80.5	(X)	144.8
20160 02	Young chickens, broilers, fryers, roasters, capons, hens, fowl, and turkeys, n.s.k., typically for establishments with less than 10 employees		(NA)	(X)	35.6	(X)	18.3
	POULTRY AND EGG PROCESSING						
2017- -- 2016 pt.	Total		(NA)	(X)	1,066.5	(X)	525.5
20165 -- 20175 --	Processed poultry and small game, except soups		(NA)	(X)	657.7	(X)	358.1
20165 --	Processed in slaughtering plants		(NA)	(X)	331.4	(X)	(12)
20175 --	Processed elsewhere		(NA)	(X)	326.3	(X)	358.1
	Canned poultry: 10 ounces and under	1,000 cases of 48.	(NA)	(D)	(D)	1,007.3	15.8
20165 11	Processed in slaughtering plants	1,000 cases of 48.	(NA)	(D)	(D)	(12)	(12)
20175 11	Processed elsewhere	1,000 cases of 48.	(NA)	(D)	(D)	1,007.3	15.8
	40.1 to 60 ounces	1,000 cases of 12.	5	536.5	11.5	551.5	6.7
20165 13	Processed in slaughtering plants	1,000 cases of 12.	5	536.5	11.5	(12)	(12)
20175 13	Processed elsewhere	1,000 cases of 12.				551.5	6.7

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972 — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipmnets)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
2017- --	POULTRY AND EGG PROCESSING--Con.						
	Processed poultry and small game, except soups--Con.						
	Canned poultry--Con.						
	Other sizes	1,000 cases...	6	(S)	50.4	3,130.8	50.2
20165 15	Processed in slaughtering plants	1,000 cases...	6	(S)	50.4	(12)	(12)
20175 15	Processed elsewhere	1,000 cases...				3,130.8	50.2
	Cooked or smoked poultry, including deboned:						
	Turkey	Million lb....	(NA)	266.5	313.1	201.8	141.3
20165 21	Processed in slaughtering plants		10	165.9	171.8	(12)	(12)
20175 21	Processed elsewhere		15	130.0	141.3	201.8	141.3
	Chicken		(NA)	200.2	197.9	216.5	134.7
20165 23	Processed in slaughtering plants		10	121.1	110.5	(12)	(12)
20175 23	Processed elsewhere	Million lb....	9	79.1	87.4	216.5	134.7
	Other	.....	(NA)	(D)	(D)	(X)	(X)
20165 25	Processed in slaughtering plants	.....	(NA)	(D)	(D)	(X)	(X)
20175 25	Processed elsewhere	.....	(NA)	(D)	(D)	(X)	(X)
	Other processed poultry and small game (dehydrated, raw-boned, etc.), except frozen	.....	(NA)	(X)	26.0	(X)	(X)
20165 29	Processed in slaughtering plants	.....	5	(X)	6.2	(X)	(X)
20175 29	Processed elsewhere	.....	7	(X)	19.8	(X)	(X)
	Processed poultry and small game, except soups, n.s.k	.....	(NA)	(X)	20.2	(X)	9.4
20165 00	Processed in slaughtering plants	.....	(NA)	(X)	20.2	(NA)	(NA)
20175 00	Processed elsewhere	.....				(X)	9.4
20179 --	Liquid, dried, and frozen eggs	Million lb....	(NA)	(X)	312.7	(X)	156.7
	Eggs, solid:						
20179 11	Whites		12	*15.8	31.3	17.5	18.4
20179 13	Yolks		12	(S)	39.0	13.4	14.0
20179 15	Whole		20	97.5	52.0	16.0	16.1
20179 17	Mixed		11	44.1	33.1	41.9	32.7
	Eggs, frozen or liquid:						
20179 51	Whites		16	(S)	31.4	66.7	9.7
20179 53	Yolks		18	36.1	18.3	35.9	12.9
20179 55	Whole		18	**74.0	30.5	106.2	27.9
20179 57	Mixed	Million lb....	13	132.0	58.2	57.4	14.0
20179 00	Liquid, dried, and frozen eggs, n.s.k	.....	(NA)	(X)	18.9	(X)	11.0
20170 00	Processed poultry and small game, except soups; and liquid, dried, and frozen eggs, n.s.k.. typically for establishments with 10 employees or more	.....	(NA)	(X)	86.7	(X)	4.3
20170 02	Processed poultry and small game, except soups; and liquid, dried, and frozen eggs, n.s.k., typically for establishments with less than 10 employees	.....	(NA)	(X)	9.4	(X)	6.4

Note: In 1977 Census of Manufactures, shipments data for establishments of small companies, typically those with less than 20 employees, were estimated from administrative records data rather than collected from respondents. These shipments figures are included in the code ending with "002." In both the 1977 and 1972 Censuses of Manufactures, products not completely identified on the standard forms were coded in the appropriate product class (5 digits) followed by "00," or in some cases to the appropriate industry (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1] Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2] For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3] Substantial quantities of these products are produced in nonmanufacturing establishments and are not included in these data.

[4] Excludes value of prepared meats made in slaughtering plants.

[5] Quantity estimated based on quantity-value relationship of other products in this product class.

[6] Current Industrial Reports M20K, Fats and Oils, publishes production data. Its figures for the production of lard were 1,022.0 million pounds in 1977 and 1,540.6 million pounds in 1972; its figures for the production of tallow were 769.4 million pounds in 1977 and 544.8 million pounds in 1972.

[7] Includes value of prepared meats made in slaughtering plants.

[8] Canned meat products containing less than 20-percent meat are included in Industry 2032, Canned Specialties.

[9] Collagen sausage casings are included with synthetic meat and sausage casings in Industry 3079, Miscellaneous Plastics Products.

[10] Plants buying fresh beef and/or pork and cutting it into primal cuts, ribs, etc., accounted for $85 million of this figure. Some of the plants are also engaged in "portion control." Because no existing product code (7-digit) adequately describes this activity, it is included here.

[11] For 1972, all data were collected and published under Industry 2016, Poultry Dressing Plants, product codes only. However, industry 2016 products are defined to include only those products processed at slaughtering plants. Industry 2017, Poultry and Egg Processing, is defined to include same products but processed from purchased carcasses. For 1977, comparable product classes were created for collecting products primary to both 2016 and 2017 industries.

[12] For 1972, all data were collected and published under Industry 2017, Poultry and Egg Processing, product codes only. However, industry 2017 products are defined to include only those products processed from purchased carcasses. Industry 2016, Poultry Dressing Plants, is defined to include same products but processed at slaughtering plants. For 1977, comparable product classes were created for collecting products primary to both 2017 and 2016 industries.

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20111, BEEF, NOT CANNED OR MADE INTO SAUSAGE		
United States	14,095.8	11,790.1
Middle Atlantic Division:		
New York	77.1	GG
Pennsylvania	342.7	181.7
East North Central Division:		
Ohio	357.5	310.2
Indiana	135.8	82.6
Illinois	540.2	469.1
Michigan	173.7	141.8
Wisconsin	498.2	353.0
West North Central Division:		
Minnesota	501.9	556.2
Iowa	1,850.2	1,409.7
Missouri	376.1	310.8
South Dakota	269.2	160.9
Nebraska	1,712.9	2,010.1
Kansas	1,163.4	1,094.9
South Atlantic Division:		
Maryland	20.0	25.5
Virginia	37.9	44.0
North Carolina	57.7	35.0
Georgia	71.4	60.7
Florida	160.5	116.6
East South Central Division:		
Kentucky	84.2	48.6
Tennessee	123.8	170.6
Alabama	18.2	17.2
Mississippi	79.5	57.5
West South Central Division:		
Arkansas	56.3	33.1
Louisiana	37.3	22.1
Oklahoma	212.5	160.9
Texas	1,954.2	806.9
Mountain Division:		
Idaho	224.5	132.6
Wyoming	4.6	CC
Colorado	931.6	964.1
New Mexico	202.0	122.1
Arizona	157.3	195.4
Utah	91.1	80.4
Pacific Division:		
Washington	275.1	162.3
Oregon	71.3	FF
California	921.2	865.5
20112, VEAL, NOT CANNED OR MADE INTO SAUSAGE		
United States	319.3	241.5
Middle Atlantic Division:		
New York	50.2	15.4
Pennsylvania	19.2	EE
East North Central Division:		
Wisconsin	61.7	28.7
West South Central Division:		
Louisiana	5.2	8.4
Texas	19.0	13.2
Pacific Division:		
California	21.4	13.8
20113, LAMB AND MUTTON, NOT CANNED OR MADE INTO SAUSAGE		
United States	329.5	330.4
Middle Atlantic Division:		
Pennsylvania	4.6	3.3
South Atlantic Division:		
Maryland	2.1	AA
Mountain Division:		
Colorado	82.2	GG
Pacific Division:		
California	70.1	FF
20114, PORK, FRESH AND FROZEN		
United States	5,647.5	4,221.0
Middle Atlantic Division:		
Pennsylvania	246.7	252.6
East North Central Division:		
Ohio	174.6	EE
Indiana	273.9	140.6
Illinois	499.8	416.1
Michigan	388.5	359.3
Wisconsin	223.8	GG
West North Central Division:		
Minnesota	346.6	238.4
Iowa	1,617.3	1,190.4
South Dakota	141.3	128.7
Nebraska	218.5	132.5
South Atlantic Division:		
Virginia	127.2	124.3
North Carolina	115.3	92.5
Georgia	94.8	71.4
Florida	4.1	EE
East South Central Division:		
Tennessee	188.8	112.1
Alabama	29.3	FF
Mississippi	73.9	38.6
West South Central Division:		
Louisiana	8.6	CC
Texas	71.1	48.6
Mountain Division:		
Idaho	3.4	2.4
New Mexico	4.5	BB
Pacific Division:		
Washington	38.7	28.7
California	86.5	GG
20115, LARD		
United States	214.1	171.0
Middle Atlantic Division:		
Pennsylvania	4.2	2.5
East North Central Division:		
Ohio	11.7	7.2
Indiana	5.7	CC
Illinois	10.0	10.1
West North Central Division:		
Minnesota	17.9	EE
Iowa	54.3	40.3
South Atlantic Division:		
Virginia	9.9	5.5
East South Central Division:		
Kentucky	6.3	4.4
Tennessee	6.6	7.6
Mississippi	2.9	2.6
West South Central Division:		
Texas	3.9	EE
Pacific Division:		
Washington	4.7	2.0
California	5.6	CC
20116 AND 20136, PORK, PROCESSED OR CURED, NOT CANNED OR MADE INTO SAUSAGE		
United States	3,778.6	2,413.5
Middle Atlantic Division:		
Pennsylvania	214.3	178.8
East North Central Division:		
Ohio	255.6	167.3
Illinois	259.7	126.1

See footnotes at end of table.

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972 – Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20116 AND 20136, PORK, PROCESSED OR CURED, NOT CANNED OR MADE INTO SAUSAGE--Con.		
South Atlantic Division:		
Virginia	211.0	103.3
Georgia	86.4	53.7
East South Central Division:		
Tennessee	117.2	87.1
West South Central Division:		
Texas	105.2	87.6
20117 AND 20137, SAUSAGE AND SIMILAR PRODUCTS NOT CANNED		
United States	4,680.0	3,264.3
Middle Atlantic Division:		
Pennsylvania	265.0	196.6
East North Central Division:		
Ohio	335.4	223.1
Indiana	149.0	75.2
Illinois	456.3	360.9
Wisconsin	314.6	169.7
West North Central Division:		
Missouri	56.7	53.1
Kansas	87.6	GG
South Atlantic Division:		
North Carolina	68.4	51.5
East South Central Division:		
Alabama	56.1	45.5
West South Central Division:		
Texas	207.4	116.0
20118 AND 20138, CANNED MEATS, CONTAINING 20 PERCENT OR MORE MEAT		
United States	1,256.3	1,106.3
West North Central Division:		
Iowa	413.7	226.2
20119, HIDES, SKINS, AND PELTS		
United States	807.7	580.4
Middle Atlantic Division:		
New York	5.9	10.2
Pennsylvania	22.7	10.8
East North Central Division:		
Ohio	15.9	14.0
Indiana	7.9	7.6
Illinois	28.9	24.4
Michigan	16.1	6.3
Wisconsin	45.0	16.5
West North Central Division:		
Minnesota	30.6	27.5
Iowa	106.3	93.0
Missouri	14.2	13.6
South Dakota	21.0	CC
Nebraska	79.2	68.9
Kansas	53.1	44.6
South Atlantic Division:		
Virginia	6.3	3.2
Georgia	3.4	3.0
Florida	8.1	4.4
East South Central Division:		
Kentucky	5.1	2.5
Tennessee	6.2	13.8
Mississippi	5.6	2.7
West South Central Division:		
Oklahoma	11.3	7.1
Texas	110.1	47.7
20119, HIDES, SKINS, AND PELTS--Con.		
Mountain Division:		
Idaho	10.7	5.9
Colorado	52.0	36.7
New Mexico	9.1	5.0
Arizona	4.9	9.6
Utah	7.2	6.0
Pacific Division:		
Washington	13.4	6.0
Oregon	4.5	1.7
California	57.4	58.3
20139, NATURAL SAUSAGE CASINGS		
United States	33.2	114.8
Middle Atlantic Division:		
New York	7.6	7.2
Pennsylvania	2.1	CC
East North Central Division:		
Wisconsin	5.0	4.6
West North Central Division:		
Iowa	5.3	5.2
20161 AND 20171, YOUNG CHICKENS		
United States	3,961.1	[1]2,198.0
New England Division:		
Maine	123.1	GG
Middle Atlantic Division:		
Pennsylvania	175.3	81.5
East North Central Division:		
Ohio	43.1	24.1
West North Central Division:		
Missouri	76.6	FF
South Atlantic Division:		
Delaware	112.0	79.4
Maryland	207.9	102.6
Virginia	269.0	114.3
North Carolina	418.0	233.0
South Carolina	34.2	FF
Georgia	538.4	277.6
Florida	81.6	38.1
East South Central Division:		
Tennessee	86.1	FF
Alabama	410.8	284.9
Mississippi	305.9	149.2
West South Central Division:		
Arkansas	461.8	265.2
Louisiana	62.3	75.7
Texas	216.9	133.4
Pacific Division:		
Washington	26.8	7.6
California	146.5	36.3
20162 AND 20172, HENS AND/OR FOWL		
United States	229.5	[1]147.8
South Atlantic Division:		
Georgia	22.2	18.9
West South Central Division:		
Texas	17.5	3.7
Pacific Division:		
California	20.1	5.0

See footnotes at end of table.

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972 — Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20163 AND 20173, TURKEYS		
United States	927.3	[1]538.9
Middle Atlantic Division:		
Pennsylvania	41.1	EE
West North Central Division:		
Indiana	32.3	18.4
East North Central Division:		
Minnesota	189.5	91.9
Iowa	51.5	43.2
Missouri	53.2	FF
South Atlantic Division:		
Virginia	125.0	FF
North Carolina	96.4	50.5
West South Central Division:		
Arkansas	72.9	32.3
Texas	54.6	FF
Pacific Division:		
California	120.5	100.7
20165 AND 20175, PROCESSED POULTRY AND SMALL GAME		
United States	657.7	[2]358.1
West North Central Division:		
Minnesota	78.2	66.8
South Atlantic Division:		
Georgia	28.2	EE
20179, LIQUID, DRIED, AND FROZEN EGGS		
United States	312.7	156.7
East North Central Division:		
Illinois	10.3	6.2
West North Central Division:		
Minnesota	26.1	24.5
Missouri	41.8	12.6
South Atlantic Division:		
Georgia	25.6	11.9
West South Central Division:		
Texas	12.6	BB
Pacific Division:		
California	7.6	CC

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.

(NA) Not available.

[1]For 1972, all data were collected and published under Industry 2016, Poultry Dressing Plants, product codes only. However, industry 2016 products are defined to include only those products processed at slaughtering plants. Industry 2017, Poultry and Egg Processsng, is defined to include the same products but processed from purchased carcasses. For 1977, comparable product classes were created for collecting products primary to both 2016 and 2017 industries.

[2]For 1972, all data were collected and published under Industry 2017, Poultry and Egg Processing, product codes only. However, industry 2017 products are defined to include only those products processed from purchased carcasses. Industry 2016, Poultry Dressing Plants, is defined to include the same products but processed at slaughtering plants. For 1977, comparable product classes were created for collecting products primary to both 2017 and 2016 industries.

Table 6c. **Product Classes — Value Shipped by All Producers: 1963, 1967, and 1972 to 1977**

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2011-	Meat packing plants	23,359.4	26,217.6	25,080.7	22,866.1	21,461.8	18,284.4	11,830.2	9,259.8
20111	Beef, not canned or made into sausage	14,095.8	16,946.8	16,590.8	15,045.1	13,629.7	11,790.1	7,398.5	5,707.8
20112	Veal, not canned or made into sausage	319.3	326.1	279.5	237.4	238.1	241.5	307.7	310.8
20113	Lamb and mutton, not canned or made into sausage	329.5	450.7	388.1	364.1	346.8	330.4	312.7	300.1
20114	Pork, fresh and frozen	5,647.5	6,045.8	5,928.0	5,367.8	5,319.6	4,221.0	2,791.0	2,202.5
20115	Lard	214.1	229.6	326.0	349.5	231.7	171.0	182.2	223.6
20119	Hides, skins, and pelts	807.7	712.7	477.9	555.8	728.0	580.4	276.3	223.4
20110	Miscellaneous byproducts of meatpacking plants	1,945.5	1,506.0	1,090.4	946.4	967.9	950.0	(NA)	(NA)
2013-	Sausages and other prepared meats	11,663.0	10,513.7	10,175.2	8,859.2	8,471.6	7,278.5	5,418.2	4,285.8
20116 20136	Pork, processed or cured, not canned or made into sausage	3,778.6	3,775.2	3,623.8	3,057.4	2,922.7	2,413.5	(NA)	(NA)
20117 20137	Sausage and similar products, not canned	4,680.0	4,908.6	4,771.1	3,947.4	3,894.2	3,264.3	(NA)	(NA)
20118 20138	Canned meats, containing 20 percent or more meat	1,256.3	1,292.1	1,263.0	1,381.2	1,177.2	1,106.2	(NA)	(NA)
20139	Natural sausage casings	33.2	113.2	104.0	90.9	99.8	114.8	83.4	(NA)
20130	Meat processing plant products, n.s.k.	1,914.9	424.6	413.3	382.3	377.7	379.2	183.8	(NA)
2016-	Dressed poultry and small game	5,291.9	[2]5,027.0	[2]4,777.5	[2]4,264.7	[2]4,321.6	[2]3,071.5	(NA)	(NA)
20161 20171	Young chickens	3,961.1	3,788.0	3,590.0	3,163.9	3,186.0	2,198.0	(NA)	(NA)
20162 20172	Hens and/or fowl	229.5	163.1	180.7	155.3	164.0	147.8	(NA)	(NA)
20163 20173	Turkeys	927.3	898.3	834.1	823.2	813.6	538.9	(NA)	(NA)
20164 20174	Other poultry and small game	57.9	(84.2)	(93.4)	32.0	35.6	23.7	(NA)	(NA)
20160	Poultry dressing plant products, n.s.k.	116.1	93.3	79.2	90.3	122.4	163.1	134.3	64.7
2017-	Processed poultry and eggs	1,066.5	[3]980.9	[3]815.1	[3]763.8	[3]709.0	[3]525.5	(NA)	(NA)
20165 20175	Processed poultry and small game	657.7	662.7	536.7	485.7	491.5	358.1	(NA)	(NA)
20179	Liquid, dried, and frozen eggs	312.7	310.6	275.8	276.6	204.1	156.7	159.6	139.7
20170	Poultry and egg processing products, n.s.k.	96.1	(S)	(S)	1.5	13.4	10.7	(NA)	(NA)

NA) Not available. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]For years 1972 to 1976, all data were collected and published under industry 2016, Poultry Dressing Plants, product codes only. However, industry 2016 products are defined to include only products processed at slaughtering plants. Industry 2017, Poultry and Egg Processing is defined to include same products but processed from purchased carcasses. For 1977, comparable product classes were created for collecting products primary to both 2016 and 2017 industries.

[3]For years 1972 to 1976, all data were collected and published under industry 2017, Poultry and Egg Processing, product codes only. However, industry 2017, products are defined to include only products processed from purchased carcasses. Industry 2016, Poultry Dressing Plants, is defined to include same products but processed at slaughtering plants. For 1977, comparable product classes were created for collecting products primary to both 2017 and 2016 industries.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Appendix A, Cost of materials)

1977 code material	Material	1977 Number of head (1,000)	1977 Quantity[1] (million pounds)	1977 Delivered cost (million dollars)	1972 Number of head (1,000)	1972 Quantity (million pounds)	1972 Delivered cost (million dollars)
	INDUSTRY 2011, MEAT PACKING PLANTS						
	Materials, containers, and supplies	(X)	(X)	24,624.7	(X)	(X)	19,068.1
021013	Cattle	34,750.0	35,862.6	13,035.1	29,987.2	33,666.7	10,333.1
021023	Calves	3,250.3	788.1	330.6	2,029.7	548.5	216.4
021413	Sheep and lambs	6,035.5	711.5	321.4	10,035.2	989.7	306.6
021313	Hogs	70,241.7	17,705.8	6,652.3	81,506.4	19,866.5	5,063.6
	Fresh and frozen meats:						
201111	Beef	(X)	**975.3	600.1	(X)	1,377.9	792.3
201121	Veal	(X)	(S)	5.7	(X)	29.9	17.9
201131	Lamb	(X)	(S)	4.2	(X)		
201141	Pork	(X)	846.0	530.6	(X)	916.9	406.1
201101	Meat materials for sausage and canning, not separable by species	(X)	437.4	241.5	(X)	927.4	422.4
201161	Processed pork--cured, smoked, etc	(X)	239.4	177.9	(X)	113.8	55.1
201102	Other purchased meat, materials (cured beef, cured lamb, goat meat, etc.)	(X)	87.6	40.3	(X)	97.5	27.5
201191	Hides, skins, and pelts purchased	(X)	(X)	33.6	(X)	(X)	76.6
209993	Spices and curing materials	(X)	(S)	65.3	(X)	138.4	40.5
	Casings:						
201391	Animal casings purchased	(X)	(X)	14.3	(X)	(X)	12.4
307914	Synthetic casings	(X)	(X)	59.2	(X)	(X)	40.6
970099	All other materials, ingredients, containers, packaging materials and supplies	(X)	(X)	634.2	(X)	(X)	449.1
971000	Materials, containers, and supplies, n.s.k.[2]	(X)	(X)	1,878.4	(X)	(X)	807.9

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS					
	Materials, containers, and supplies	.....	(X)	5,312.2	(X)	2,892.9
021013	Cattle	Million lb.	(NA)	(3)	(NA)	(3)
021023	Calves		(NA)	(3)	(NA)	(3)
021413	Sheep and lambs		(NA)	(3)	(NA)	(3)
021313	Hogs		(NA)	(3)	(NA)	(3)
	Fresh and frozen meats:					
201111	Beef		*2,224.3	1,333.8	1,137.8	611.6
201121	Veal		(S)	38.7	20.3	13.8
201131	Lamb		(S)	1.5	25.6	11.8
201141	Pork		*2,491.0	1,667.3	2,300.5	1,067.6
201101	Meat materials for sausage and canning, not separable by species		*1,019.9	546.3	765.8	397.9
201161	Processed pork--cured, smoked, etc		**276.6	202.9	260.4	126.8
201102	Other purchased meat, materials (cured beef, cured lamb, goat meat, etc.)		*133.5	88.8	30.6	13.7
201013	Fresh and prepared meats, other than poultry, n.s.k		127.0	90.4	(X)	(X)
209993	Spices and curing materials	Million lb.	(S)	89.2	133.4	39.0
	Casing:					
201391	Animal casings purchased	.....	(X)	32.1	(X)	38.6
307914	Synthetic casings	.....	(X)	90.2	(X)	50.1
970099	All other materials, ingredients, containers, packaging materials, and supplies	.....	(X)	[3]477.5	(X)	[3]267.6
971000	Materials, containers, and supplies, n.s.k.[2]	.....	(X)	653.5	(X)	254.4
	INDUSTRY 2016, POULTRY DRESSING PLANTS[4]					
	Materials, parts, and supplies	.....	(X)	4,337.9	(X)	2,340.4
	Poultry killed:					
025111	Young chickens, including commercial broilers	Live weight million lb.	*12,005.9	2,870.4	9,681.6	1,525.6
025121	Hens (or fowl) and other chickens		804.0	136.9	529.0	65.4
025311	Turkeys	Live weight million lb.	*1,902.7	717.3	1,634.6	359.6
025911	Other poultry and small game, including ducks, geese, rabbits, etc	.....	(X)	16.4	(X)	10.0
	Other materials used:					
201601	Dressed poultry purchased as such	Dressed weight million lb.	432.4	158.7	292.7	83.6
025211	Shell eggs	1,000 cases (30 doz.)	1,025.4	13.7	833.6	9.6
970099	All other materials and components, parts, containers, and supplies	.....	(X)	289.2	(X)	152.7
971000	Materials, parts, and supplies, n.s.k.[2]	.....	(X)	135.3	(X)	133.9

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972** - Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2017, POULTRY AND EGG PROCESSING					
	Materials, parts, and supplies	.....	(X)	596.9	(X)	379.4
	Poultry killed:[4]					
025111	Young chickens, including commercial boilers	Live weight million lb.	-	-	110.9	21.2
025121	Hens (or fowl) and other chickens	↑	-	-	183.4	23.0
025311	Turkeys	Live weight million lb.	-	-	185.6	49.4
	Other materials used:					
201601	Dressed poultry purchased as such	Dressed weight million lb.	478.8	206.1	315.7	100.3
025211	Shell eggs	1,000 cases (30 doz.)	13,753.7	170.0	14,006.0	92.9
970099	All other materials and components, parts, containers, and supplies	.....	(X)	107.8	(X)	81.0
971000	Materials, parts, and supplies, n.s.k.[2]	.....	(X)	113.0	(X)	11.6

Represents zero. (NA) Not available. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[3]Material codes 021013, 021023, 021413, and 021313 were included with material code 970099.

[4]For 1977, those establishments slaughtering poultry have been reclassified into industry 2016, in accordance with industry definition shown in text.

Dairy Products

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DESCRIPTION OF INDUSTRIES

DAIRY PRODUCTS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2021	Creamery Butter
2022	Cheese, Natural and Processed
2023	Condensed and Evaporated Milk
2024	Ice Cream and Frozen Desserts
2026	Fluid Milk

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2021, CREAMERY BUTTER

This industry comprises establishments primarily engaged in the manufacture of creamery butter.

The total value of shipments for establishments classified in the Creamery Butter industry amounted to $901 million in 1977, an increase of 11 percent from 1972. The value of shipments of products classified as primary to the industry was $1,110 million, an increase of 40 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $75 million in 1977, was 9 percent below value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 2.3 thousand employees, a decrease of 43 percent from 1972. The leading State in employment was Minnesota, accounting for approximately 25 percent of the industry's 1977 employment. This same State was in the forefront for 1972 when it accounted for 30 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2022, CHEESE, NATURAL AND PROCESSED

This industry comprises establishments primarily engaged in the manufacture of all types of natural cheese (except cottage cheese—industry 2026), processed cheese, cheese foods, and cheese spreads.

The total value of shipments for establishments classified in the Cheese, Natural and Processed industry amounted to $6,126 million in 1977, an increase of 92 percent from 1972. The value of shipments of products classified as primary to the industry was $5,528 million, an increase of 100 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $949 million in 1977, was 93 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 26.7 thousand employees, an increase of 6 percent from 1972. The leading States in employment were Wisconsin, Minnesota, Missouri, and New York, accounting for approximately 60 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

INDUSTRY 2023, CONDENSED AND EVAPORATED MILK

This industry comprises establishments primarily engaged in the manufacture of condensed and evaporated milk and related products, including ice cream mix and ice milk mix made for sale as such, and dry milk products. Also included in the

manufacture of nondairy-base cream substitutes and dietary supplements.

The total value of shipments for establishments classified in the Condensed and Evaporated Milk industry amounted to $3,189 million in 1977, an increase of 91 percent from 1972. The value of shipments of products classified as primary to the industry was $3,086 million, an increase of 81 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $805 million in 1977, was 72 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 12.3 thousand employees, the same as in 1972. The leading States in employment were Wisconsin, Indiana, Michigan, and Illinois. Data for Indiana have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

INDUSTRY 2024, ICE CREAM AND FROZEN DESSERTS

This industry comprises establishments primarily engaged in the manufacture of ice cream and other frozen desserts.

The total value of shipments for establishments classified in the Ice Cream and Frozen Desserts industry amounted to $2,009 million in 1977, an increase of 61 percent from 1972. The value of shipments of products classified as primary to the industry was $2,229 million, an increase of 47 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $644 million in 1977, was 40 percent above value added in 1972. All dollar figures shown this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 19.1 thousand employees, a decrease of 9 percent from 1972. The leading States in employment were New York, Pennsylvania, Massachusetts, and California, accounting for approximately 40 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 35 percent of the industry's employment although there has been some shift in the relatively importance of individual States.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

INDUSTRY 2026, FLUID MILK

This industry comprises establishments primarily engaged in processing (pasteurizing, homogenizing, vitaminizing, bottling) and distributing fluid milk and cream, and related products; including cottage cheese.

The total value of shipments for establishments classified in the Fluid Milk industry amounted to $13,786 million in 1977, an increase of 47 percent from 1972. The value of shipments of products classified as primary to the industry was $11,603 million, an increase of 51 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $3,176 million in 1977, was 24 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 93.5 thousand employees, a decrease of 26 percent from 1972. The leading States in employment were California, Ohio, New York, and Pennsylvania. Data for California and New York have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2021, CREAMERY BUTTER																
1977 Census	124	138	39	2.3	25.3	1.7	3.6	18.1	74.6	822.9	900.5	8.3	(NA)	24.2	80	81
1976 ASM[5]	(NA)	(NA)	(NA)	3.3	41.0	2.2	4.6	24.7	109.1	1 009.6	1 110.8	7.4	97.5	34.9	(NA)	(NA)
1975 ASM[5]	(NA)	(NA)	(NA)	3.5	39.0	2.6	4.9	24.0	139.1	870.7	1 010.8	7.7	96.5	26.9	(NA)	(NA)
1974 ASM[5]	(NA)	(NA)	(NA)	3.5	36.1	2.6	5.4	25.9	116.8	753.6	852.2	7.0	93.8	29.8	(NA)	(NA)
1973 ASM[5]	(NA)	(NA)	(NA)	3.6	30.2	2.8	5.6	21.3	97.6	720.9	815.7	10.6	89.7	24.1	(NA)	(NA)
1972 Census	201	231	63	4.0	31.0	2.9	6.0	22.1	82.3	724.7	808.3	7.8	(NA)	20.5	71	70
1971 ASM	(NA)	(NA)	(NA)	5.2	37.1	3.7	8.4	27.2	100.8	840.2	941.1	7.5	121.1	26.9	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	5.6	35.9	4.1	9.1	25.8	107.4	753.2	850.8	9.9	(S)	29.0	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	7.9	45.2	5.8	11.9	31.9	124.3	855.8	982.4	9.8	170.7	32.3	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	8.3	45.8	6.1	12.9	32.4	118.6	887.5	1 006.8	10.2	168.7	32.1	(NA)	(NA)
1967 Census	510	540	138	8.7	45.4	6.4	13.9	31.3	113.2	841.4	958.8	9.5	168.0	31.8	71	75
1966 ASM	(NA)	(NA)	(NA)	9.4	46.5	7.0	16.3	33.3	125.7	863.5	975.6	10.2	(NA)	36.2	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	10.4	48.5	7.4	17.3	34.2	117.1	822.1	943.0	9.9	(NA)	24.6	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	11.3	52.9	8.0	19.1	35.6	160.8	925.1	1 080.4	16.1	204.3	32.2	(NA)	(NA)
1963 Census	725	766	178	12.0	52.9	8.6	19.5	37.0	132.7	854.6	988.8	9.9	192.7	28.2	69	77
INDUSTRY 2022, CHEESE, NATURAL AND PROCESSED																
1977 Census	660	791	293	26.7	287.0	22.2	44.0	223.4	948.7	5 200.5	6 126.0	57.2	(NA)	550.4	91	93
1976 ASM	(NA)	(NA)	(NA)	30.1	300.3	24.4	48.3	229.2	823.6	5 321.4	6 106.9	63.2	683.1	545.9	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	29.8	263.8	24.6	47.9	198.9	779.8	4 449.2	5 213.9	73.2	620.5	466.9	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	29.6	235.5	24.5	46.0	179.8	698.3	4 049.1	4 688.7	57.5	539.9	426.6	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	27.5	208.5	22.5	43.7	159.0	616.9	3 274.8	3 856.7	37.9	466.3	320.9	(NA)	(NA)
1972 Census	739	872	281	25.2	186.3	20.6	40.8	137.1	492.3	2 719.0	3 195.0	49.9	439.6	252.5	89	96
1971 ASM	(NA)	(NA)	(NA)	21.7	144.2	17.3	35.0	110.0	426.4	2 183.1	2 594.2	22.6	286.5	229.8	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	20.7	124.1	17.0	34.6	93.9	349.5	1 852.5	2 185.3	24.1	272.3	195.0	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	20.5	116.3	17.4	34.2	89.9	320.2	1 638.5	1 956.3	21.2	255.2	161.9	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	19.6	107.2	16.4	32.6	83.0	262.5	1 532.0	1 783.7	16.3	262.7	151.7	(NA)	(NA)
1967 Census	881	1 026	238	20.0	103.6	16.6	33.9	80.0	226.5	1 487.4	1 707.8	17.3	249.6	135.0	93	96
1966 ASM	(NA)	(NA)	(NA)	19.3	94.5	15.6	34.5	72.4	246.0	1 320.5	1 552.3	13.4	(NA)	147.5	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	18.6	86.5	15.1	31.9	66.6	207.7	1 125.3	1 324.7	13.9	(NA)	114.7	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	17.9	82.5	14.7	31.5	64.3	190.6	1 038.3	1 225.6	11.8	189.0	114.2	(NA)	(NA)
1963 Census	982	1 138	206	18.0	78.7	14.9	31.1	61.8	179.7	995.3	1 170.8	15.9	179.1	106.3	93	96
INDUSTRY 2023, CONDENSED AND EVAPORATED MILK																
1977 Census	166	266	148	12.3	163.2	9.0	18.9	110.7	805.2	2 382.3	3 188.5	56.2	(NA)	175.0	79	76
1976 ASM	(NA)	(NA)	(NA)	11.3	135.5	8.3	16.6	83.8	664.2	1 796.0	2 442.6	35.9	357.4	146.7	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	11.8	134.1	8.6	17.7	93.8	539.9	1 890.0	2 460.5	30.8	359.0	132.9	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	11.1	115.8	8.3	16.8	82.7	537.3	1 720.8	2 216.7	24.6	316.0	165.9	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	11.3	107.0	8.5	17.4	74.8	486.8	1 289.7	1 763.0	12.8	296.7	102.2	(NA)	(NA)
1972 Census	172	253	163	12.3	108.3	9.4	19.4	77.8	467.3	1 200.8	1 667.8	32.1	320.1	83.2	80	88
1971 ASM	(NA)	(NA)	(NA)	12.1	100.8	8.7	18.4	69.0	439.1	1 140.8	1 576.6	18.9	283.9	77.6	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	12.9	97.4	9.5	20.1	68.6	409.7	961.3	1 365.7	24.6	287.9	73.9	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	12.7	88.7	9.8	20.2	64.6	467.5	986.4	1 396.3	13.7	264.9	74.6	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	12.5	82.0	9.7	19.6	60.5	351.6	903.7	1 259.2	16.4	249.9	65.5	(NA)	(NA)
1967 Census	179	291	169	13.2	83.4	10.0	20.7	59.3	373.1	892.5	1 263.0	20.8	247.2	74.8	82	71
1966 ASM	(NA)	(NA)	(NA)	12.3	73.3	9.6	20.3	54.1	309.8	802.5	1 099.5	13.6	(NA)	63.1	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	12.5	73.1	9.8	20.8	53.8	285.1	755.7	1 050.1	21.2	(NA)	50.2	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	12.7	71.7	9.9	21.9	53.8	297.6	734.7	1 020.9	17.4	194.3	59.1	(NA)	(NA)
1963 Census	167	281	166	12.3	67.0	9.5	20.1	50.4	236.2	699.4	937.9	12.1	180.1	46.8	80	66
INDUSTRY 2024, ICE CREAM AND FROZEN DESSERTS																
1977 Census	507	612	229	19.1	247.0	11.4	22.7	130.1	643.7	1 368.5	2 008.6	56.8	(NA)	126.6	94	75
1976 ASM	(NA)	(NA)	(NA)	16.7	223.6	11.3	22.3	125.3	553.7	1 301.9	1 851.4	43.2	425.7	113.8	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	16.6	209.5	11.1	22.0	116.4	534.3	1 217.8	1 749.4	37.2	404.5	104.2	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	21.3	196.5	11.8	22.9	108.0	490.0	1 073.6	1 556.3	27.8	345.2	103.4	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	21.3	195.9	12.1	24.1	100.0	497.1	869.6	1 360.8	29.2	417.4	83.3	(NA)	(NA)
1972 Census	581	697	273	21.1	184.7	12.0	23.5	94.7	459.8	785.6	1 244.7	35.8	424.2	71.4	95	70
1971 ASM	(NA)	(NA)	(NA)	22.8	173.5	12.8	25.1	87.7	431.0	742.3	1 170.9	28.0	406.7	71.4	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	24.1	166.8	13.9	26.1	85.9	431.8	705.5	1 136.5	43.7	384.7	65.3	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	22.7	159.2	12.6	25.4	80.6	404.2	680.2	1 086.3	30.3	374.4	63.3	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	23.7	158.2	13.2	26.6	79.8	396.5	695.3	1 091.8	22.1	386.3	66.6	(NA)	(NA)
1967 Census	713	850	325	24.6	156.4	13.8	27.2	77.2	403.0	658.3	1 059.4	26.5	375.9	56.9	97	73
1966 ASM	(NA)	(NA)	(NA)	25.3	153.3	13.9	29.5	77.8	413.6	666.8	1 078.4	23.8	(NA)	67.1	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	26.8	155.6	14.7	31.0	76.6	432.5	654.6	1 085.0	32.7	(NA)	59.3	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	27.8	157.2	14.7	30.7	75.8	443.1	648.2	1 090.1	30.6	374.6	79.3	(NA)	(NA)
1963 Census	901	1 081	387	29.6	162.8	15.6	32.5	76.6	433.0	644.6	1 076.5	31.9	374.6	60.7	93	74

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets		End-of-year inventories (million dollars)	Ratios	
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				New capital expenditures (million dollars)	Gross value of fixed assets (million dollars)		Specialization (percent)	Coverage (percent)
	INDUSTRY 2026, FLUID MILK															
1977 Census--	1 516	1 924	808	93.5	1 215.4	40.8	86.3	505.4	3 175.9	10 631.9	13 786.2	210.5	(NA)	304.0	88	94
1976 ASM----	(NA)	(NA)	(NA)	102.7	1 207.7	42.0	91.0	495.1	3 110.7	10 227.7	13 318.5	186.1	1 882.9	272.7	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	108.7	1 177.8	43.5	91.0	473.5	2 948.7	9 288.2	12 233.4	145.3	1 902.5	254.3	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	115.7	1 125.5	44.8	94.4	447.0	2 981.2	8 614.2	11 555.7	164.2	1 858.8	288.9	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	122.7	1 123.4	47.0	95.7	417.8	2 715.6	7 520.2	10 220.2	122.5	1 777.5	218.3	(NA)	(NA)
1972 Census--	2 025	2 507	1 287	126.1	1 086.1	48.0	99.1	400.8	2 552.4	6 854.0	9 395.7	149.2	1 731.4	187.4	88	96
1971 ASM----	(NA)	(NA)	(NA)	131.3	1 061.4	45.9	95.9	375.5	2 511.3	6 016.5	8 530.5	146.3	1 694.5	177.4	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	140.3	1 056.3	49.1	103.0	374.8	2 446.8	5 789.6	8 233.4	151.8	1 669.9	176.3	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	149.9	1 054.4	54.1	114.2	359.4	2 316.5	5 828.1	8 140.8	119.2	1 695.5	192.4	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	155.3	1 056.6	55.4	117.2	352.0	2 413.6	5 635.9	8 035.4	110.4	1 693.3	193.1	(NA)	(NA)
1967 Census--	2 988	3 481	1 636	165.2	1 060.5	60.5	126.4	356.7	2 350.7	5 493.4	7 826.0	120.3	1 697.6	181.4	90	96
1966 ASM----	(NA)	(NA)	(NA)	169.3	1 039.1	60.8	129.4	349.3	2 232.2	5 211.4	7 434.9	105.2	(NA)	151.1	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	178.4	1 054.0	63.4	136.5	348.9	2 259.2	4 925.0	7 185.1	114.6	(NA)	141.9	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	182.9	1 054.0	68.1	145.9	361.3	2 271.7	5 031.8	7 298.8	139.8	1 696.9	151.6	(NA)	(NA)
1963 Census--	4 030	4 619	1 948	185.0	1 032.9	68.6	147.1	358.8	2 203.2	4 821.7	7 025.9	126.1	1 613.6	146.8	90	95

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2021, CREAMERY BUTTER											
1977 Census--	11 501	(NA)	74	2 080	5.08	91	94	(NA)	32 651	35	20.99
1976 ASM----	12 424	29 545	66	2 090	5.36	90	94	8	33 060	37	23.71
1975 ASM----	11 142	27 571	74	1 884	4.89	86	89	9	39 742	28	28.38
1974 ASM----	10 314	26 800	74	2 076	4.79	87	91	10	33 371	30	21.62
1973 ASM----	9 388	24 916	77	2 000	3.80	88	92	10	27 111	30	17.42
1972 Census--	7 750	(NA)	72	2 068	3.68	89	93	(NA)	20 575	37	13.71
1971 ASM----	7 134	23 288	71	2 270	3.23	89	93	12	19 384	36	12.00
1970 ASM----	6 410	(S)	73	2 219	2.83	88	92	(S)	19 178	33	11.80
1969 ASM----	5 721	21 607	73	2 051	2.68	87	91	17	15 734	36	10.44
1968 ASM----	5 518	20 325	73	2 114	2.51	88	92	16	14 289	38	9.19
1967 Census--	5 218	19 310	73	2 171	2.25	87	92	17	13 011	40	8.14
1966 ASM----	4 946	(NA)	74	2 328	2.04	88	93	(NA)	13 372	36	7.71
1965 ASM----	4 663	(NA)	71	2 337	1.97	87	92	(NA)	11 259	41	6.76
1964 ASM----	4 681	18 079	70	2 387	1.86	85	90	18	14 230	32	8.41
1963 Census--	4 408	16 058	71	2 267	1.89	86	91	19	11 058	39	5.80
INDUSTRY 2022, CHEESE, NATURAL AND PROCESSED											
1977 Census--	10 737	(NA)	82	1 985	5.07	84	89	(NA)	35 489	30	21.56
1976 ASM----	9 976	22 694	81	1 979	4.74	87	92	11	27 362	36	17.05
1975 ASM----	9 652	20 822	82	1 947	4.15	85	90	11	26 167	33	16.27
1974 ASM----	7 956	18 239	82	1 877	3.90	86	91	11	23 591	33	15.18
1973 ASM----	7 581	16 956	81	1 942	3.63	84	90	12	22 432	33	14.11
1972 Census--	7 392	17 444	81	1 980	3.36	85	90	13	19 535	37	12.06
1971 ASM----	6 645	13 202	79	2 023	3.14	84	89	11	19 649	33	12.18
1970 ASM----	5 995	13 154	82	2 035	2.71	84	90	12	16 884	35	10.10
1969 ASM----	5 673	12 448	84	1 965	2.62	83	89	13	15 619	36	9.36
1968 ASM----	5 469	13 403	83	1 987	2.54	85	91	14	13 392	40	8.05
1967 Census--	5 180	12 480	83	2 042	2.35	87	93	14	11 325	45	6.68
1966 ASM----	4 896	(NA)	80	2 211	2.09	85	91	(NA)	12 746	38	7.13
1965 ASM----	4 650	(NA)	81	2 112	2.08	84	91	(NA)	11 166	41	6.51
1964 ASM----	4 625	10 558	82	2 142	2.04	84	91	15	10 648	43	6.05
1963 Census--	4 372	9 950	82	2 087	1.98	85	91	15	9 983	43	5.77
INDUSTRY 2023, CONDENSED AND EVAPORATED MILK											
1977 Census--	13 253	(NA)	73	2 102	5.84	74	79	(NA)	65 392	20	42.51
1976 ASM----	11 991	31 628	73	2 000	5.65	73	79	14	58 778	20	40.01
1975 ASM----	11 364	30 423	72	2 058	5.29	76	82	14	45 754	24	30.50
1974 ASM----	10 432	28 468	74	2 024	4.92	77	82	14	48 405	21	31.98
1973 ASM----	9 459	26 256	75	2 047	4.29	73	79	16	43 079	21	27.97
1972 Census--	8 804	26 024	76	2 063	4.01	71	78	19	37 991	23	24.08
1971 ASM----	8 330	23 462	71	2 114	3.75	72	78	18	36 289	22	23.86
1970 ASM----	7 550	22 317	73	2 115	3.41	70	77	21	31 759	23	20.38
1969 ASM----	6 964	20 858	77	2 061	3.19	70	76	18	36 811	18	23.14
1968 ASM----	6 560	19 992	77	2 020	3.08	71	78	19	28 128	23	17.93
1967 Census--	6 318	18 727	75	2 070	2.86	70	77	19	28 265	22	18.02
1966 ASM----	5 905	(NA)	78	2 114	2.66	72	79	(NA)	25 186	23	15.26
1965 ASM----	5 848	(NA)	78	2 122	2.58	71	78	(NA)	22 808	25	13.70
1964 ASM----	5 645	15 299	77	2 212	2.45	71	78	19	23 433	24	13.58
1963 Census--	5 447	14 642	77	2 115	2.50	74	81	19	19 203	28	11.75
INDUSTRY 2024, ICE CREAM AND FROZEN DESSERTS											
1977 Census--	12 959	(NA)	59	1 992	5.71	68	80	(NA)	33 769	38	28.30
1976 ASM----	13 389	25 491	67	1 973	5.61	70	82	22	33 155	40	24.82
1975 ASM----	12 560	24 367	58	1 981	5.29	59	81	23	32 186	39	24.28
1974 ASM----	9 225	16 206	55	1 940	4.71	58	81	22	23 004	40	21.39
1973 ASM----	9 197	19 596	56	1 991	4.14	63	78	30	23 338	39	20.62
1972 Census--	8 753	20 104	56	1 958	4.02	63	77	34	21 791	40	19.56
1971 ASM----	7 676	17 995	56	1 960	3.49	63	78	34	19 070	40	17.17
1970 ASM----	6 921	15 962	57	1 877	3.29	62	76	33	17 917	38	16.54
1969 ASM----	7 013	16 493	55	2 015	3.17	62	77	34	17 806	39	15.91
1968 ASM----	6 675	16 299	55	2 015	3.00	63	78	35	16 729	39	14.90
1967 Census--	6 357	15 280	56	1 971	2.83	62	76	35	16 382	38	14.81
1966 ASM----	6 059	(NA)	54	2 122	2.63	61	76	(NA)	16 347	37	14.02
1965 ASM----	5 805	(NA)	54	2 108	2.47	60	74	(NA)	16 138	35	13.95
1964 ASM----	5 654	13 474	52	2 088	2.46	59	73	34	15 938	35	14.43
1963 Census--	5 300	12 655	52	2 083	2.35	59	75	34	14 628	37	13.32

See footnotes at end of table

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2026, FLUID MILK										
1977 Census--	13 004	(NA)	43	2 118	5.85	77	85	(NA)	33 981	38	36.79
1976 ASM----	11 759	18 333	40	2 166	5.44	76	85	14	30 289	38	34.18
1975 ASM----	10 835	17 502	40	2 091	5.20	75	85	15	27 126	39	32.40
1974 ASM----	9 727	16 065	38	2 107	4.73	74	84	16	25 766	37	31.58
1973 ASM----	9 155	14 486	38	2 036	4.36	73	84	17	22 132	41	28.37
1972 Census--	8 613	13 730	38	2 064	4.04	72	84	18	20 241	42	25.75
1971 ASM----	8 083	12 905	34	2 089	3.91	70	82	19	19 126	42	26.18
1970 ASM----	7 528	11 902	34	2 097	3.63	70	83	20	17 439	43	23.75
1969 ASM----	7 034	11 310	36	2 110	3.14	71	84	20	15 453	45	20.28
1968 ASM----	6 803	10 903	35	2 115	3.00	70	83	21	15 541	43	20.59
1967 Census--	6 419	10 276	36	2 089	2.82	70	83	21	14 229	45	18.59
1966 ASM----	6 137	(NA)	35	2 128	2.69	70	84	(NA)	13 184	46	17.25
1965 ASM----	5 908	(NA)	35	2 152	2.55	68	83	(NA)	12 663	46	16.55
1964 ASM----	5 762	9 277	37	2 142	2.47	68	83	23	12 420	46	15.57
1963 Census--	5 583	8 722	37	2 144	2.43	68	83	22	11 909	46	14.97

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2021, CREAMERY BUTTER													
United States	E1	138	39	2.3	26.3	1.7	3.6	18.1	74.6	822.9	900.5	8.3	4.0	82.3
East North Central Division:													
Wisconsin	-	21	9	0.4	5.6	0.3	0.6	3.3	23.2	201.9	224.1	2.2	0.4	12.1
West North Central Division:													
Minnesota	-	25	6	0.6	6.7	0.5	1.1	5.7	18.2	238.6	257.5	(D)	1.1	24.0
INDUSTRY 2022, CHEESE, NATURAL AND PROCESSED													
United States	-	791	293	26.7	287.0	22.2	44.0	223.4	948.7	5 200.5	6 126.0	57.2	25.2	492.3
New England Division:													
Vermont	-	10	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:													
New York	-	44	23	1.7	18.0	1.3	2.7	13.4	52.8	240.8	299.0	4.0	(NA)	(D)
New Jersey	-	13	4	0.3	3.0	0.2	0.4	1.7	4.9	56.9	61.2	0.5	(NA)	(D)
Pennsylvania	-	25	8	1.5	16.1	1.2	2.3	12.0	12.6	171.2	183.5	2.1	(NA)	(D)
East North Central Division:														
Ohio	-	24	10	1.0	10.7	0.9	1.8	8.4	38.3	134.8	172.7	2.0	0.9	15.8
Indiana	-	6	5	0.4	4.7	0.3	0.6	3.2	18.5	49.4	68.5	(D)	0.3	8.3
Illinois	-	36	15	0.9	8.9	0.8	1.4	6.4	30.3	128.5	158.2	1.3	2.1	25.3
Michigan	-	11	3	0.2	2.0	0.2	0.3	1.6	8.4	31.7	40.2	(D)	0.3	5.0
Wisconsin	-	378	99	9.5	103.3	8.0	15.7	82.1	368.4	2 071.0	2 429.9	24.1	8.8	207.1
West North Central Division:														
Minnesota	-	29	22	2.8	31.5	2.4	5.1	27.2	125.8	806.0	929.1	5.4	1.6	34.1
Iowa	-	22	11	0.9	9.1	0.8	1.5	7.1	21.6	184.6	207.4	1.5	0.6	17.9
Missouri	-	22	12	2.2	27.0	1.8	3.6	21.3	107.2	517.8	619.4	2.8	2.0	33.8
North Dakota	E1	14	6	0.3	2.2	0.2	0.4	1.6	9.8	46.5	55.8	0.5	0.3	5.1
South Dakota	-	16	4	0.4	3.6	0.4	0.7	3.1	9.0	63.5	72.9	1.4	(NA)	(D)
Nebraska	-	12	8	0.4	3.2	0.3	0.5	2.4	12.9	51.8	64.7	0.6	(NA)	(D)
Kansas	E1	10	2	0.2	1.8	0.2	0.3	1.2	1.0	32.3	33.1	0.2	0.2	4.1
East South Central Division:														
Kentucky	-	12	11	0.6	5.2	0.4	0.9	3.8	16.4	77.2	94.1	0.7	0.4	7.1
Tennessee	-	12	6	0.3	2.8	0.2	0.4	1.9	10.3	37.7	47.6	0.3	(NA)	(D)
Mountain Division:														
Idaho	-	13	5	0.3	3.6	0.3	0.5	2.9	18.1	71.4	89.1	0.8	0.7	7.8
Utah	-	10	4	0.9	8.4	0.8	1.6	7.3	19.2	116.2	131.6	(D)	(NA)	(D)
Pacific Division:														
Washington	E2	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oregon	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
California	E1	18	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
INDUSTRY 2023, CONDENSED AND EVAPORATED MILK														
United States	-	268	148	12.3	163.2	9.0	18.9	110.7	805.2	2 382.3	3 186.5	58.2	12.3	467.3
Middle Atlantic Division:														
New York	-	18	7	0.5	6.6	0.5	0.9	4.8	25.5	159.0	183.3	1.5	0.7	16.6
Pennsylvania	-	9	5	0.2	3.0	0.2	0.4	2.2	20.6	53.6	84.3	(D)	0.5	7.9
East North Central Division:														
Ohio	-	11	9	1.0	13.6	0.7	1.5	10.1	85.8	187.8	272.2	(D)	0.9	39.6
Indiana	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Illinois	-	20	14	1.1	14.5	0.8	1.7	9.8	91.4	109.1	200.7	(D)	(NA)	(D)
Michigan	-	12	11	1.2	16.3	0.9	1.9	12.4	102.4	155.0	260.3	4.5	1.0	41.1
Wisconsin	-	47	29	2.3	31.8	1.8	4.0	23.2	136.5	503.1	637.7	5.1	2.1	91.6
West North Central Division:														
Minnesota	E1	24	16	1.0	13.7	0.7	1.5	8.3	38.2	185.1	223.0	4.5	0.7	16.3
Iowa	-	17	9	0.7	9.2	0.6	1.3	7.3	55.7	146.2	202.7	1.0	0.9	49.8
Missouri	-	9	6	0.5	5.5	0.4	0.8	4.4	19.1	75.7	96.3	0.7	0.9	17.2
South Dakota	-	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Division:														
Kentucky	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Tennessee	-	6	3	0.3	2.7	0.2	0.4	2.2	5.8	49.4	57.2	(D)	0.3	6.1
Pacific Division:														
California	-	24	13	0.8	12.2	0.6	1.3	8.8	48.6	302.9	349.0	4.7	(NA)	(D)

See footnotes at end of table

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2024, ICE CREAM AND FROZEN DESSERTS														
United States	-	**612**	**229**	**19.1**	**247.0**	**11.4**	**22.7**	**130.1**	**643.7**	**1 368.5**	**2 008.6**	**56.8**	**21.1**	**459.8**
New England Division:														
Maine	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts	-	30	11	1.6	25.6	0.8	1.5	10.7	51.2	128.3	179.2	(D)	1.9	45.9
Connecticut	-	11	3	0.3	4.1	0.2	0.5	3.0	10.7	25.4	36.3	(D)	0.5	13.8
Middle Atlantic Division:														
New York	-	62	19	2.1	28.3	1.2	2.4	14.9	71.6	134.9	206.3	6.4	2.4	61.9
New Jersey	E3	25	7	0.5	7.3	0.3	0.7	4.0	13.2	26.1	39.5	0.5	0.6	14.0
Pennsylvania	-	41	13	2.0	26.8	1.2	2.5	14.2	71.7	135.5	206.6	5.6	2.0	55.5
East North Central Division:														
Ohio	-	32	10	0.7	8.8	0.5	0.9	4.9	19.4	49.2	68.8	1.1	0.7	14.5
Indiana	-	19	9	0.5	6.0	0.3	0.7	3.1	14.1	37.4	51.5	(D)	0.9	12.8
Illinois	-	35	17	1.2	19.4	0.7	1.4	8.9	63.7	112.2	175.7	(D)	1.3	26.7
Michigan	E1	25	11	0.7	9.1	0.4	0.7	3.6	17.3	45.9	62.6	0.9	0.7	13.4
Wisconsin	-	17	4	0.4	4.2	0.3	0.5	2.5	11.4	18.6	29.5	0.9	0.5	7.7
West North Central Division:														
Minnesota	E2	9	4	0.4	4.7	0.3	0.6	2.0	22.5	35.0	57.5	(D)	0.5	12.4
Iowa	-	13	5	0.3	3.1	0.2	0.4	2.2	7.2	20.2	27.2	(D)	0.2	4.2
Missouri	-	10	5	0.5	6.1	0.3	0.6	3.6	12.4	25.2	37.6	(D)	0.4	18.7
South Atlantic Division:														
Maryland	-	11	7	0.6	6.7	0.4	0.7	3.7	41.3	35.6	76.6	(D)	0.5	17.2
Virginia	-	7	4	0.2	3.5	0.1	0.2	1.3	5.5	22.3	27.8	(D)	0.3	4.8
North Carolina	-	13	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Georgia	-	8	5	0.5	4.5	0.2	0.4	1.8	8.5	23.8	32.5	0.5	(NA)	(D)
Florida	-	18	5	0.5	5.6	0.3	0.7	2.6	19.3	36.8	55.9	0.8	0.6	14.4
East South Central Division:														
Kentucky	-	8	3	0.2	2.0	0.1	0.2	1.1	9.2	16.6	25.7	(D)	0.2	3.0
Tennessee	-	10	8	0.5	5.2	0.3	0.6	2.5	13.3	29.1	42.3	0.6	0.6	12.1
Alabama	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	7.5
Mississippi	-	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.5
West South Central Division:														
Louisiana	E1	10	4	0.3	3.2	0.1	0.2	1.1	5.4	11.1	16.4	0.5	(NA)	(D)
Texas	-	28	12	1.0	10.0	0.5	1.1	4.9	30.4	49.6	79.9	(D)	(NA)	(D)
Mountain Division:														
Utah	-	7	3	0.2	1.5	0.1	0.1	0.9	3.1	10.1	13.2	0.2	0.2	1.3
Pacific Division:														
Washington	-	7	4	0.2	3.7	0.1	0.3	2.6	10.9	25.1	35.9	(D)	0.2	5.6
California	-	70	21	1.5	22.5	1.2	2.4	17.3	52.5	176.7	229.1	2.4	1.6	28.6
INDUSTRY 2026, FLUID MILK														
United States	-	**1 924**	**908**	**93.5**	**1 215.4**	**40.8**	**86.3**	**505.4**	**3 175.9**	**10 631.9**	**13 786.2**	**210.5**	**126.1**	**2 552.4**
New England Division:														
Maine	E1	31	8	0.6	7.9	0.3	0.6	3.1	14.4	63.1	77.5	1.7	(NA)	(D)
New Hampshire	E3	16	4	0.3	3.1	0.1	0.2	1.2	6.5	25.8	32.2	0.4	0.5	11.0
Vermont	-	26	11	0.6	7.8	0.3	0.7	3.6	15.8	119.0	135.6	1.2	0.7	8.5
Massachusetts	E1	68	28	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	83.9
Rhode Island	E6	16	6	0.4	3.8	0.2	0.4	1.6	4.3	30.6	34.9	0.7	0.9	15.7
Connecticut	E1	33	15	1.7	18.6	0.7	1.3	6.6	43.1	142.8	186.1	3.0	(NA)	(D)
Middle Atlantic Division:														
New York	-	187	61	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.3	174.7
New Jersey	-	35	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	49.3
Pennsylvania	E1	179	66	5.7	75.9	2.4	5.5	28.7	164.2	494.5	657.5	10.9	10.7	201.6
East North Central Division:														
Ohio	-	91	52	7.0	86.1	2.6	5.6	33.4	252.1	651.6	899.7	14.6	12.0	192.4
Indiana	-	38	25	2.3	30.5	1.0	2.1	12.3	103.9	253.4	356.6	7.0	3.1	71.4
Illinois	E1	58	37	3.3	51.3	1.4	2.9	22.0	154.6	381.5	535.3	10.2	5.2	131.5
Michigan	-	59	28	3.6	51.6	1.5	3.3	21.5	130.9	438.0	569.3	5.5	4.1	88.0
Wisconsin	-	84	25	2.3	32.5	1.2	2.5	17.6	85.0	434.7	519.2	8.0	3.4	73.8
West North Central Division:														
Minnesota	-	118	24	2.3	31.1	1.0	2.1	13.0	60.2	370.5	430.9	6.7	3.6	63.7
Iowa	-	44	16	1.6	21.6	0.6	1.3	8.0	50.1	247.7	298.5	2.3	2.2	37.8
Missouri	-	33	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	63.8
North Dakota	-	16	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	10.7
South Dakota	-	11	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	7.8
Nebraska	-	19	10	0.9	10.6	0.4	0.8	3.8	24.2	74.6	98.5	2.6	(NA)	(D)
Kansas	-	27	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	30.8
South Atlantic Division:														
Maryland	-	22	13	1.8	26.8	0.7	1.6	9.8	78.4	213.4	291.8	3.5	2.2	59.2
Virginia	-	28	21	1.9	22.7	0.7	1.5	6.7	62.3	189.7	251.5	3.6	2.5	49.9
West Virginia	-	15	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
North Carolina	-	24	21	2.8	28.5	1.2	2.6	11.7	69.6	227.7	297.5	4.2	2.9	62.8
South Carolina	-	14	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Georgia	-	23	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	38.1
Florida	-	37	28	3.2	37.3	1.5	3.1	15.8	155.0	358.5	512.5	6.6	4.1	91.7

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2026, FLUID MILK—Con.														
East South Central Division:														
Kentucky	-	29	16	1.4	16.5	0.5	1.1	6.0	34.6	126.4	161.1	2.1	2.0	33.8
Tennessee	-	21	16	2.2	28.5	0.9	1.9	9.8	72.7	179.5	251.6	19.1	2.2	42.0
Alabama	-	27	20	2.1	22.1	0.6	1.4	5.9	40.0	141.7	181.3	2.8	3.0	37.0
Mississippi	-	19	14	1.1	11.4	0.4	1.0	3.6	35.2	78.5	113.6	1.6	1.3	14.8
West South Central Division:														
Arkansas	-	13	8	0.8	9.2	0.3	0.6	2.8	18.9	62.8	81.7	(D)	0.7	15.4
Louisiana	E1	36	26	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	54.0
Oklahoma	-	17	13	1.4	15.1	0.6	1.2	5.4	32.5	111.4	143.3	2.2	1.4	25.3
Texas	-	59	42	5.5	62.3	2.2	4.7	22.0	191.6	467.3	658.4	12.5	6.2	119.1
Mountain Division:														
Montana	-	20	10	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	10.2
Idaho	-	13	5	0.4	4.0	0.2	0.4	2.1	11.4	66.7	77.9	1.8	0.5	7.3
Colorado	-	27	11	1.1	14.5	0.4	0.9	5.7	32.0	114.7	146.4	3.2	1.4	29.4
New Mexico	-	12	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Arizona	-	8	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	22.7
Utah	-	18	5	0.8	8.9	0.4	0.8	4.8	22.7	99.4	122.1	(D)	1.1	24.5
Nevada	-	4	3	0.2	3.7	0.1	0.2	1.2	7.7	23.2	30.9	(D)	0.4	8.1
Pacific Division:														
Washington	-	37	17	1.5	26.6	0.7	1.4	12.5	49.8	181.4	231.0	2.3	(NA)	(D)
Oregon	-	35	22	1.3	21.0	0.6	1.2	10.1	54.1	156.5	209.8	2.6	1.6	33.7
California	-	150	61	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.7	242.9
Hawaii	-	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Creamery buttery (SIC 2021)	Cheese, natural and processed (SIC 2022)	Condensed and evaporated milk (SIC 2023)	Ice cream and frozen desserts (SIC 2024)	Fluid milk (SIC 2026)
Primary product specialization ratio[1]	percent	80	91	79	94	88
Coverage ratio[2]	do	61	93	76	75	94
All establishments	number	138	791	266	612	1 924
With 1 to 19 employees	do	99	498	118	383	1 016
With 20 to 99 employees	do	37	241	123	182	590
With 100 employees or more	do	2	52	25	47	318
All employees, average for year	1,000	2.3	26.7	12.3	19.1	93.5
Payroll for year, all employees	mil. dol.	26.3	287.0	163.2	247.0	1 215.4
Production workers:						
Average for year	1,000	1.7	22.2	9.0	11.4	40.8
March	do	1.7	21.4	8.8	10.7	40.0
May	do	1.7	22.2	9.1	12.1	40.6
August	do	1.7	22.7	9.2	12.6	41.2
November	do	1.7	22.4	8.9	10.1	40.6
Hours	millions	3.6	44.0	18.9	22.7	86.3
January to March	do	0.8	10.5	4.6	5.0	21.2
April to June	do	0.9	11.1	4.8	6.2	21.6
July to September	do	0.9	11.3	4.8	6.5	22.1
October to December	do	0.9	11.1	4.8	5.0	21.5
Wages	mil. dol.	18.1	223.4	110.7	130.1	505.4
Cost of materials, etc.	do	822.9	5 200.5	2 382.3	1 368.5	10 631.9
Materials, parts, containers, etc., consumed	do	783.5	4 616.2	2 242.2	1 131.3	9 167.4
Resales	do	30.3	522.1	86.9	201.8	1 328.0
Fuels consumed	do	5.6	39.7	44.2	7.3	50.9
Purchased electric energy	do	2.4	19.9	15.3	26.9	78.6
Contract work	do	1.1	2.6	13.6	1.1	7.0
Value of shipments, including resales	do	900.5	6 126.0	3 188.5	2 008.6	13 786.2
Value of resales	do	36.7	518.4	113.8	234.9	1 403.5
Value added by manufacture	do	74.6	948.7	805.2	643.7	3 175.9
Manufacturers' inventories:						
Beginning of year	do	25.4	528.3	164.4	116.9	261.8
Finished products	do	19.7	239.5	99.7	54.5	132.3
Work in process	do	1.3	45.7	11.8	1.8	10.5
Materials, supplies, fuel, etc.	do	4.5	243.0	52.9	60.6	119.0
End of year	do	24.2	550.4	175.0	126.6	304.0
Finished products	do	16.7	267.9	95.6	58.4	152.6
Work in process	do	1.3	40.5	14.8	1.5	11.7
Materials, supplies, fuel, etc.	do	6.2	242.0	64.6	66.7	139.7
Capital expenditures for plant and equipment	do	8.9	63.4	58.9	61.3	226.3
New capital expenditures	do	8.3	57.2	56.2	56.8	210.5
New buildings and other structures	do	1.9	12.9	12.1	20.3	42.0
New machinery and equipment	do	6.4	44.3	44.2	36.4	168.5
Used capital expenditures	do	0.6	6.3	2.7	4.5	15.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Creamery butter (SIC 2021)		Cheese, natural and processed (SIC 2022)		Condensed and evaporated milk (SIC 2023)		Ice cream and frozen desserts (SIC 2024)		Fluid milk (SIC 2026)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:										
Cost of purchased services for repair of--										
Buildings and other structures	(0.5)	21	(17.8)	74	2.3	11	6.2	5	10.6	9
Response coverage ratio[2] (percent)	61.6	(X)	66.7	(X)	63.8	(X)	65.1	(X)	69.9	(X)
Machinery	(1.8)	20	(94.5)	66	12.5	7	(21.6)	16	56.7	5
Response coverage ratio[2] (percent)	68.7	(X)	63.2	(X)	64.4	(X)	65.1	(X)	74.3	(X)
Cost of purchased communication services	(0.3)	19	(41.6)	85	2.8	14	11.3	4	12.4	5
Response coverage ratio[2] (percent)	60.6	(X)	59.9	(X)	66.7	(X)	62.7	(X)	71.6	(X)
Rental payments	1.0	6	10.0	5	6.6	10	15.4	5	79.2	7
Buildings and other structures	(0.1)	56	2.8	10	2.1	8	7.0	8	(23.6)	18
Machinery and equipment	0.9	6	7.1	5	(4.5)	17	8.3	4	55.6	5
Supplemental labor costs	5.3	6	52.3	1	36.1	2	44.0	3	224.7	1
Legal costs	2.4	6	23.6	1	13.3	1	20.6	5	96.6	1
Voluntary costs	2.9	6	28.7	2	22.8	4	23.4	3	128.1	2
Gross value of depreciable assets:										
Buildings and other structures:										
Beginning of year	20.0	3	197.0	2	124.3	3	137.0	14	550.3	3
New capital expenditures	1.7	12	15.0	13	(14.0)	20	19.4	4	52.1	10
Used capital expenditures	0.1	1	(1.9)	20	1.5	5	2.6	4	(5.8)	22
Retirements	0.5	4	2.1	11	1.3	9	(2.7)	25	(21.8)	23
End of year	21.3	3	211.7	.2	138.4	2	156.4	13	586.4	3
Machinery and equipment:										
Beginning of year	40.0	3	381.8	2	267.9	3	304.9	4	1,324.9	1
New capital expenditures	5.3	6	45.1	7	(50.6)	16	38.7	8	187.8	6
Automobiles, trucks, etc., for highway use[3]	(0.6)	(A)	(2.7)	(A)	(3.5)	(A)	(8.5)	(A)	(35.6)	(A)
Computers and peripheral data processing equipment[3]	(0.0)	(A)	(0.1)	(A)	(1.5)	(A)	(0.2)	(A)	(2.9)	(A)
All other[3]	(4.0)	(A)	(29.8)	(A)	(26.1)	(A)	(20.2)	(A)	(104.4)	(A)
New machinery and equipment, n.s.k.[4]	(0.7)	(A)	(12.5)	(A)	(19.6)	(A)	(9.9)	(A)	(44.9)	(A)
Used capital expenditures	0.1	1	(6.2)	18	1.2	4	(2.8)	22	12.4	11
Retirements	3.0	3	7.8	9	10.6	4	9.6	6	82.3	7
End of year	42.4	3	425.3	2	309.1	2	336.8	4	1,442.8	1
Total gross value of depreciable assets:										
Beginning of year	60.0	3	578.8	2	392.1	3	441.8	4	1,875.2	1
New capital expenditures	7.0	5	60.1	8	(64.6)	17	58.1	6	239.8	6
Used capital expenditures	0.2	1	(8.1)	18	2.7	4	5.4	13	18.2	9
Retirements	3.5	2	9.9	9	11.9	5	12.2	9	104.0	10
End of year	63.8	3	637.1	2	447.5	2	493.1	3	2,029.2	1
Depreciation charges during 1977	4.2	3	42.6	3	24.4	3	36.2	8	178.5	2
Buildings and other structures	1.1	4	10.0	4	4.8	4	(9.3)	20	45.2	3
Machinery and equipment	3.1	3	32.5	3	19.7	3	26.8	5	133.3	2

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2021, CREAMERY BUTTER												
Total	-	138	2.3	26.3	1.7	3.6	18.1	74.6	822.9	900.5	8.3	24.2
Establishments with an average of—												
1 to 4 employees	E9	65	0.1	1.4	0.1	0.2	1.0	2.3	40.9	43.4	0.2	1.3
5 to 9 employees	E4	19	0.1	1.3	0.1	0.2	0.9	2.9	27.0	30.0	0.2	0.9
10 to 19 employees	E3	15	0.2	2.1	0.1	0.3	1.4	4.4	45.7	50.2	0.5	1.4
20 to 49 employees	-	26	0.8	8.4	0.6	1.2	5.8	29.4	325.5	354.5	4.5	10.6
50 to 99 employees	-	11	(1.0)	(13.1)	(0.8)	(1.6)	(9.0)	(35.6)	(383.8)	(422.4)	(2.9)	(9.9)
100 to 249 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	62	0.1	1.5	0.1	0.2	1.0	2.6	42.9	45.5	0.2	1.4
INDUSTRY 2022, CHEESE, NATURAL AND PROCESSED												
Total	-	791	26.7	287.0	22.2	44.0	223.4	948.7	5 200.5	6 126.0	57.2	550.4
Establishments with an average of—												
1 to 4 employees	E8	253	0.5	4.9	0.5	0.8	3.9	10.9	85.7	97.5	1.2	8.4
5 to 9 employees	E2	102	0.7	6.7	0.6	1.0	5.2	18.4	130.1	147.4	1.2	10.2
10 to 19 employees	-	143	2.0	18.6	1.6	3.0	13.5	56.6	320.2	374.9	4.4	24.1
20 to 49 employees	-	161	4.9	47.3	3.9	7.7	34.4	153.0	787.3	935.7	10.7	58.7
50 to 99 employees	-	80	5.4	58.2	4.4	9.2	43.8	198.3	1 108.0	1 300.9	17.0	119.8
100 to 249 employees	-	34	5.4	59.0	4.5	9.0	47.1	196.5	989.4	1 177.3	12.8	87.8
250 to 499 employees	-	12	(8.0)	(92.4)	(6.7)	(13.3)	(75.4)	(315.1)	(1 779.8)	(2 092.3)	(10.1)	(241.4)
500 to 999 employees	-	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	244	0.6	6.1	0.6	1.0	4.7	13.6	102.2	115.8	1.1	10.4
INDUSTRY 2023, CONDENSED AND EVAPORATED MILK												
Total	-	266	12.3	163.2	9.0	18.9	110.7	805.2	2 382.3	3 188.5	58.2	175.0
Establishments with an average of—												
1 to 4 employees	E7	43	0.1	1.0	0.1	0.1	0.7	4.6	12.1	16.5	0.3	0.9
5 to 9 employees	E5	32	0.2	2.5	0.2	0.3	1.8	10.0	24.4	34.2	0.4	1.8
10 to 19 employees	E2	43	0.6	7.6	0.4	0.9	4.6	20.1	75.2	95.5	5.0	5.7
20 to 49 employees	-	75	2.5	33.4	1.9	4.1	23.5	135.5	679.8	812.2	8.7	46.5
50 to 99 employees	-	48	3.4	44.2	2.7	5.7	33.6	190.9	877.5	1 075.2	13.6	51.5
100 to 249 employees	-	21	3.4	42.9	2.6	5.3	29.4	233.0	549.2	782.9	14.4	43.4
250 to 499 employees	-	3	(2.1)	(31.6)	(1.2)	(2.6)	(17.1)	(211.0)	(163.9)	(371.9)	(13.8)	(25.1)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	58	0.3	3.2	0.2	0.4	2.2	10.7	31.0	41.7	0.5	2.4
INDUSTRY 2024, ICE CREAM AND FROZEN DESSERTS												
Total	-	612	19.1	247.0	11.4	22.7	130.1	643.7	1 368.5	2 008.6	56.8	126.6
Establishments with an average of—												
1 to 4 employees	E7	237	0.4	4.3	0.3	0.4	2.4	8.6	22.3	31.4	0.6	2.0
5 to 9 employees	E4	64	0.4	4.9	0.3	0.5	2.8	10.6	25.2	35.9	0.7	2.5
10 to 19 employees	-	82	1.2	12.7	0.7	1.2	7.0	30.7	74.2	104.9	2.8	7.7
20 to 49 employees	-	111	3.7	43.4	2.2	4.3	23.6	133.2	281.8	414.0	9.4	28.1
50 to 99 employees	-	71	4.9	63.0	2.9	5.9	32.8	155.0	368.2	521.8	10.3	36.2
100 to 249 employees	-	39	5.5	72.2	3.5	7.5	42.7	214.8	386.6	599.8	13.3	37.0
250 to 499 employees	-	7	(3.1)	(46.6)	(1.5)	(2.9)	(18.9)	(90.9)	(210.1)	(300.7)	(19.7)	(13.2)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	215	0.4	5.2	0.3	0.5	2.8	10.7	26.9	37.5	0.7	2.3
INDUSTRY 2026, FLUID MILK												
Total	-	1 924	93.5	1 215.4	40.8	86.3	505.4	3 175.9	10 631.9	13 786.2	210.5	304.0
Establishments with an average of—												
1 to 4 employees	E8	580	0.9	10.5	0.5	0.8	4.2	24.6	95.3	120.8	1.4	2.4
5 to 9 employees	E7	227	1.5	17.2	0.6	1.4	7.2	39.5	134.2	173.6	2.2	3.7
10 to 19 employees	E2	208	2.9	32.9	1.3	2.7	13.8	85.8	346.3	431.5	4.4	9.9
20 to 49 employees	-	332	10.9	139.0	5.2	10.9	60.5	361.9	1 428.5	1 790.0	26.7	36.8
50 to 99 employees	-	259	18.9	244.2	8.9	18.9	107.9	627.9	2 299.1	2 921.5	39.8	60.1
100 to 249 employees	-	270	41.4	548.8	17.9	38.0	230.7	1 505.2	4 650.6	6 149.1	96.2	127.3
250 to 499 employees	-	43	13.5	184.5	5.3	11.9	67.1	456.9	1 447.5	1 898.9	38.6	50.8
500 to 999 employees	-	4	(3.5)	(38.3)	(0.9)	(1.9)	(14.0)	(74.2)	(230.5)	(300.6)	(1.2)	(12.9)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E9	671	2.3	27.2	1.0	2.0	11.0	61.9	205.4	267.3	3.4	5.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2021	**Creamery butter:**										
	Entire industry	138	2.3	26.3	1.7	3.6	18.1	74.6	822.9	900.5	8.3
	Establishments with 75 percent specialization or more	116	1.3	14.1	1.0	1.9	9.5	48.2	471.1	521.3	4.2
2022	**Cheese, natural and processed:**										
	Entire industry	791	26.7	287.0	22.2	44.0	223.4	948.7	5 200.5	6 126.0	57.2
	Establishments with 75 percent specialization or more	747	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20221	Natural cheese, except cottage cheese:										
	Establishments with this product class primary	365	13.8	144.7	11.3	22.2	109.6	482.7	2 422.6	2 893.0	32.0
	Establishments with 75 percent specialization or more in class	337	12.0	123.1	9.8	19.0	93.3	417.4	2 101.2	2 512.2	27.9
20222	Processed cheese and related products:										
	Establishments with this product class primary	99	11.1	124.9	9.2	18.8	100.0	426.4	2 514.9	2 930.5	19.8
	Establishments with 75 percent specialization or more in class	87	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2023	**Condensed and evaporated milk:**										
	Entire industry	255	12.3	163.2	9.0	18.9	110.7	805.2	2 382.3	3 188.5	56.2
	Establishments with 75 percent specialization or more	197	8.5	113.9	6.0	12.6	73.2	676.5	1 090.2	1 761.3	46.6
20231	Dry milk products:										
	Establishments with this product class primary	118	7.3	96.6	5.6	11.9	69.8	432.7	1 660.7	2 095.7	34.3
	Establishments with 75 percent specialization or more in class	61	3.6	48.5	2.7	5.9	33.9	289.8	508.5	794.4	25.4
20232	Canned milk products, consumer type cans:										
	Establishments with this product class primary	30	3.5	47.6	2.3	4.7	28.6	321.0	454.5	775.2	18.1
	Establishments with 75 percent specialization or more in class	26	3.2	44.3	2.1	4.4	26.8	311.3	403.7	715.2	(D)
20233	Condensed and evaporated milk products, bulk:										
	Establishments with this product class primary	15	0.6	7.5	0.4	0.9	4.9	13.1	158.5	170.8	2.0
	Establishments with 75 percent specialization or more in class	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20234	Ice cream mix and ice milk mix:										
	Establishments with this product class primary	11	0.3	3.2	0.2	0.3	1.8	8.2	25.3	33.3	0.2
	Establishments with 75 percent specialization or more in class	9	0.2	2.2	0.1	0.2	0.9	6.5	20.2	26.4	0.2
2024	**Ice cream and frozen desserts:**										
	Entire industry	612	19.1	247.0	11.4	22.7	130.1	643.7	1 368.5	2 008.6	56.8
	Establishments with 75 percent specialization or more	584	17.2	223.8	10.3	20.6	117.9	596.7	1 202.2	1 795.1	(D)
2026	**Fluid milk:**										
	Entire industry	1 924	93.5	1 215.4	40.8	86.3	505.4	3 175.9	10 631.9	13 786.2	210.5
	Establishments with 75 percent specialization or more	1 758	79.0	1 026.0	33.7	71.1	417.1	2 691.3	8 859.7	11 531.1	181.3
20261	Bulk fluid milk and cream (including buttermilk):										
	Establishments with this product class primary	103	5.0	63.4	2.6	5.5	31.8	158.7	1 228.6	1 389.9	11.1
	Establishments with 75 percent specialization or more in class	59	2.4	30.3	1.2	2.6	13.6	59.9	550.5	611.0	6.7
20262	Packaged fluid milk and related products:										
	Establishments with this product class primary	829	78.0	1 026.3	32.6	69.4	411.0	2 681.4	8 372.9	11 031.6	173.4
	Establishments with 75 percent specialization or more in class	494	36.7	485.8	15.9	33.0	198.3	1 347.7	4 274.2	5 613.0	75.8
20263	Cottage cheese:										
	Establishments with this product class primary	32	2.0	24.2	1.7	3.5	18.9	70.6	318.4	387.9	5.7
	Establishments with 75 percent specialization or more in class	11	0.5	5.3	0.4	0.7	4.1	14.0	69.2	82.8	0.9
20264	Buttermilk and flavored milk products:										
	Establishments with this product class primary	23	1.1	16.0	0.6	1.3	8.0	65.8	91.8	156.7	5.0
	Establishments with 75 percent specialization or more in class	16	0.9	12.4	0.4	0.9	5.7	51.2	63.8	114.3	3.9

- Represents zero (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product† specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2021	Creamery butter.....1977..	900.5	685.4	175.3	39.8	80	1,109.7	685.4	424.3	61
	1972..	808.3	553.5	226.1	28.7	71	791.1	553.5	237.6	70
	1967..	958.8	628.9	257.2	72.7	71	836.5	628.9	207.6	75
2022	Cheese, natural and processed.....1977..	6,126.0	5,115.5	480.4	530.1	91	5,528.1	5,115.5	412.6	93
	1972..	3,195.0	2,704.6	335.3	155.1	89	2,753.7	2,704.6	49.1	98
	1967..	1,707.8	1,504.0	112.7	91.1	93	1,533.8	1,504.0	29.8	98
2023	Condensed and evaporated milk.....1977..	3,188.5	2,354.7	708.4	125.5	79	3,086.1	2,354.7	731.4	76
	1972..	1,667.8	1,157.1	295.9	214.8	80	1,706.2	1,157.1	549.1	68
	1967..	1,263.0	1,004.7	223.1	35.2	82	1,422.7	1,004.7	418.0	71
2024	Ice cream and frozen desserts.....1977..	2,008.6	1,667.6	101.0	240.1	94	2,229.4	1,667.6	561.8	75
	1972..	1,244.7	1,066.9	47.6	130.2	96	1,519.4	1,066.9	452.5	70
	1967..	1,059.4	926.2	32.5	100.7	97	1,273.6	926.2	347.4	73
2026	Fluid milk.....1977..	13,786.2	10,872.9	1,454.3	1,459.0	88	11,602.8	10,872.9	729.9	94
	1972..	9,395.8	7,325.0	1,034.5	1,036.3	88	7,662.7	7,325.0	337.7	96
	1967..	7,826.0	6,331.6	740.4	754.0	90	6,603.4	6,331.6	271.8	96

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Creamery butter (SIC 2021)	Cheese, natural and processed (SIC 2022)	Condensed and evaporated milk (SIC 2023)	Ice cream and frozen desserts (SIC 2024)	Fluid milk (SIC 2026)	Other industries
	Total	(X)	900.5	6,126.0	3,188.5	2,008.6	13,786.2	(X)
	Primary products	(X)	685.4	5,115.5	2,354.7	1,667.6	10,872.9	(X)
	Secondary products	(X)	175.3	480.4	708.4	101.0	1,454.3	(X)
	Miscellaneous receipts	(X)	39.8	530.1	125.5	240.1	1,459.0	(X)
20210	Creamery butter (including anhydrous butterfat)	1,109.7	685.4	32.0	239.5	(D)	151.7	(D)
2022-	Cheese, natural and processed	5,528.1	(D)	5,115.5	(D)	(D)	83.4	292.2
20221	Natural cheese, except cottage cheese	2,727.2	(D)	2,659.1	(D)	(D)	(D)	(D)
20222	Processed cheese and related products	2,518.5	(D)	2,174.6	(D)	(D)	28.5	(D)
20220	Cheese, natural and processed, n.s.k	282.3	-	281.7	-	-	(D)	(D)
2023-	Condensed and evaporated milk	3,086.1	134.4	117.0	2,354.7	28.1	429.9	22.2
20231	Dry milk products	1,735.4	113.1	72.6	1,355.5	(D)	162.5	(D)
20232	Canned milk products, consumer type cans	672.4	-	-	654.6	-	(D)	(D)
20233	Condensed and evaporated milk products, bulk	264.2	19.1	28.0	159.0	(D)	54.3	(D)
20234	Ice cream mix and ice milk mix	293.2	(D)	(D)	68.6	13.1	195.0	(D)
20230	Condensed and evaporated milk, n.s.k	121.0	(D)	(D)	117.0	-	(D)	.9
20240	Ice cream and frozen desserts	2,229.4	(D)	(D)	(D)	1,667.6	534.7	2.5
2026-	Fluid milk	11,602.8	30.3	(D)	367.8	(D)	10,872.9	11.4
20261	Bulk fluid milk and cream (including buttermilk)	2,123.8	(D)	251.9	353.6	(D)	1,471.0	-
20262	Packaged fluid milk and related products	7,345.5	(D)	7.2	(D)	23.6	7,300.7	7.6
20263	Cottage cheese	545.6	(D)	(D)	8.8	(D)	524.2	(D)
20264	Buttermilk and flavored milk products	851.7	(D)	(D)	(D)	4.1	841.9	(D)
20260	Fluid milk, n.s.k	736.3	-	(D)	(D)	-	735.1	1.0
	Other shipments by 4- digit product group:							
2016-	Dressed poultry and small game	(X)	-	(D)	-	-	-	(X)
2032-	Canned specialties	(X)	-	-	(D)	-	-	(X)
2033-	Canned fruits and vegetables	(X)	-	-	-	(D)	(D)	(X)
2038-	Frozen specialties	(X)	-	-	-	(D)	(D)	(X)
2043-	Cereal breakfast foods	(X)	-	-	(D)	-	-	(X)
2048-	Prepared feeds, n.e.c	(X)	(D)	(D)	(D)	-	2.3	(X)
2051-	Bread, cake, and related products	(X)	-	(D)	-	-	(D)	(X)
2079-	Shortening and cooking oils	(X)	(D)	(D)	-	-	1.3	(X)
2086-	Bottled and canned soft drinks	(X)	-	(D)	(D)	(D)	(D)	(X)
2098-	Macaroni and spaghetti	(X)	-	(D)	-	-	-	(X)
2099-	Food preparations, n.e.c	(X)	(D)	(D)	(D)	8.1	(D)	(X)
2834-	Pharmaceutical preparations	(X)	-	-	10.6	-	-	(X)
3069-	Fabricated rubber products, n.e.c	(X)	-	-	(D)	-	-	(X)
3079-	Miscellaneous plastics products	(X)	-	-	-	-	12.1	(X)
3411-	Metal cans	(X)	-	-	(D)	-	-	(X)
	Miscellaneous receipts:							
93000 00	Contract work	(X)	(D)	(D)	8.2	(D)	19.3	(X)
95120 00	Shell egg sales	(X)	(D)	(D)	-	(D)	19.2	(X)
99980 98	Other miscellaneous receipts	(X)	(D)	6.1	3.4	3.2	17.0	(X)
99989 00	Resales	(X)	36.7	518.4	113.8	234.9	1,403.5	(X)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2022-	2035 Pickles, sauces, and salad dressings	(D)
	2079 Shortening and cooking oils	(D)
2023-	2099 Food preparations, n.e.c	17.6

- Represents zero. D Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified.
n.s.k. Not specified by kind. X Not applicable. Z Less than 50 thousand dollars or hours; under 50 employees.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	CREAMERY BUTTER						
2021- --	Total	Million lbs...	(NA)	(X)	1,109.7	1,174.8	791.1
20210 --	Creamery butter:						
20210 13	Shipped in bulk (containers over 3 pounds)		88	708.0	696.1	803.8	523.9
20210 15	Shipped in consumer packages (containers 3 pounds and under)		73	250.6	267.4	228.6	167.9
20210 21	Anhydrous butterfat		9	15.4	18.7	14.1	11.7
20210 00	Creamery butter, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	82.0	93.5	63.6
20210 02	Creamery butter, n.s.k., typically for establishments with less than 5 employees (see note)	Million lbs...	(NA)	(X)	45.5	34.8	24.0
	CHEESE, NATURAL AND PROCESSED						
2022- --	Total	.....	(NA)	(X)	5,528.1	(X)	2,753.7
20221 --	Natural cheese, except cottage cheese:						
20221 01	Natural cheese (cheddar, brick, grated, cream, Swiss, Italian, etc.), except cottage cheese	Million lb....	362	2,585.0	2,727.2	2,184.3	1,400.0
20222 --	Process cheese and related products		(NA)	(X)	2,518.5	(X)	1,134.1
20222 11	Process cheese		83	1,103.5	1,162.8	1,119.5	702.3
20222 13	Cheese food		37	606.7	688.6	355.6	200.8
20222 15	Cheese spread		21	276.4	271.0	233.6	109.6
20222 19	Other related cheese products	Million lb....	39	370.2	384.3	166.9	112.7
20222 00	Process cheese and related products, n.s.k.	.....	(NA)	(X)	11.8	(X)	8.7
20220 00	Natural and process cheese and related products, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	165.0	(X)	102.3
20220 02	Natural and process cheese and related products, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	117.4	(X)	117.3
	CONDENSED AND EVAPORATED MILK						
2023- --	Total	.....	(NA)	(X)	3,086.1	(X)	1,706.2
20231 --	Dry milk products	Million lb....	(NA)	(X)	1,735.4	2,964.4	880.4
	Shipped in consumer type packages (containers 3 pounds or smaller):						
20231 31	Nonfat dry milk		13	(S)	234.5	442.7	191.2
20231 23	Powdered cream and cream substitutes		21	265.8	191.1	198.8	101.0
20231 29	Other dry milk products (instant chocolate milk, weight control products, whole milk powder, malted milk powder, infants' dietary supplements, etc.)		15	186.5	245.5	212.8	116.0
	Shipped in bulk (containers larger than 3 pounds):						
	Food grade (bakeries, confectioners, meat packers, etc.):						
20231 42	Dry whole milk		18	179.0	125.7	174.1	65.4
20231 43	Nonfat dry milk		51	967.0	643.6	828.7	270.1
20231 39	Dry whey		29	*636.6	63.3		
20231 41	Modified dry whey products		17	236.8	46.1	381.8	82.5
20231 46	Other food grade dry milk products		26	**167.5	90.0		
20231 51	Feed grade (dry milk, dry buttermilk, dry whey, etc.)		23	*457.2	80.5	690.8	44.0
20231 00	Dry milk products and mixtures, n.s.k.		(NA)	(X)	15.1	34.7	10.2
20232 --	Canned milk products (consumer type cans)		(NA)	(X)	672.4	(S)	427.6
20232 12	Evaporated milk		9	746.3	239.5	1,717.8	229.6
20232 16	Condensed milk		(NA)	(D)	(D)	138.7	35.1
20232 22	Canned dietary supplements, weight control products (dairy base and nondairy base)		4	45.6	54.5	(S)	38.0
20232 25	Infants' formulas, liquid		(NA)	(D)	(D)	374.5	109.8
20232 29	Other canned milk products, including canned whole milk		4	82.7	23.9	149.9	15.1
20232 00	Canned milk products, n.s.k.	Million lb....	-	-	-	-	-
20233 --	Condensed and evaporated milk products (shipped in bulk)	.....	(NA)	(X)	264.2	(X)	132.0
20233 12	Feed grade, including concentrated whey and buttermilk	Million lb....	14	341.5	18.3	728.4	37.7
	Food grade, except ice cream and ice milk mixes:						
20233 17	Concentrated whey		18	818.4	39.2	628.5	88.0
20233 18	All other	Million lb....	44	(S)	190.1		
20233 00	Condensed and evaporated milk products, n.s.k.	.....	(NA)	(X)	16.6	(X)	6.3
20234 --	Ice cream mix and ice milk mix:						
20234 12	Ice cream mix, ice milk, milkshake mix, sherbet mix, etc	Million gal...	130	134.0	293.2	134.1	227.7
20230 98	Other condensed and evaporated milk products, n.e.c., n.s.k.	.....	(NA)	(X)	13.7	-	-
20230 00	Condensed and evaporated milk, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	65.5	(X)	33.4
20230 02	Condensed and evaporated milk, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	41.7	(X)	5.1

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972 — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	ICE CREAM AND FROZEN DESSERTS						
2024- --	Total	Million gal...	(X)	(X)	2,229.4	1,137.5	1,519.4
20240 --	Ice cream and ices:						
	Ice cream, including custard:						
20240 14	Shipped in bulk (3 gallons or more)		186	*158.3	350.2	751.8	1,067.1
20240 15	Shipped in consumer sizes (less than 3 gallons)		258	522.2	1,028.4		
20240 16	Novelty forms		128	141.2	335.7		
20240 51	Water ices		57	30.3	60.9	46.9	59.9
20240 71	Mellorine and similar frozen desserts containing fats other than butterfat		27	11.5	15.2	30.7	28.6
	Sherbet:						
20240 94	Shipped in bulk (3 gallons or more)		30	9.5	16.6	51.7	53.0
20240 96	All other sizes, including novelty forms		69	24.1	43.5		
20240 97	Other frozen dairy foods (ice milk, etc.)		97	87.7	145.0	134.1	154.4
20240 00	Ice cream and frozen desserts, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	196.4	101.0	128.7
20240 02	Ice cream and frozen desserts, n.s.k., typically for establishments with less than 5 employees (see note)	Million gal...	(NA)	(X)	37.5	21.3	27.7
	FLUID MILK AND RELATED PRODUCTS						
2026- --	Total	.....	(NA)	(X)	11,602.8	(X)	7,662.7
20261 --	Bulk fluid milk and cream	Million lb....	(NA)	(X)	2,123.8	15,230.1	1,258.9
20261 12	Fluid whole milk, bulk sales		222	*10,719.6	1,068.5	11,422.7	721.8
20261 15	Fluid skim milk, bulk sales		44	2,652.0	168.2	2,230.4	83.3
20261 16	Fluid cream and buttermilk, bulk sales		238	1,370.7	705.0	1,269.6	416.9
20261 00	Bulk fluid milk and related products, n.s.k.	Million lb....	(NA)	(X)	182.1	307.4	36.9
20262 --	Packaged fluid milk and related products	Million qt....	(NA)	(X)	7,345.5	21,434.5	5,078.9
20262 12	Fluid whole milk, packaged		495	13,713.2	4,659.8	16,326.4	3,769.0
20262 23	Lowfat milk, containing 2 percent fat, packaged		377	4,716.4	1,461.1	2,822.4	617.3
20262 25	Skim milk, packaged		275	1,507.3	452.9	1,100.8	234.5
20262 32	Cream, heavy (whipping cream, containing 30 percent or more butterfat)		84	(S)	100.2	60.1	58.6
20262 43	Cream, light (coffee cream, containing less than 30 percent butterfat)		30	*22.1	17.1	41.0	29.4
20262 45	Cream, sour		102	184.2	155.2	102.5	74.9
20262 52	Half and half		142	229.2	130.8	221.2	116.1
20262 63	Whipped topping, packed at the plant, with a butterfat base		17	87.0	52.2	25.6	17.5
20262 00	Packaged milk and related products, n.s.k.	Million qt....	(NA)	(X)	316.2	734.5	161.6
20263 --	Cottage cheese, including bakers' cheese, pot cheese, and farmers' cheese	Million lb....	(NA)	(X)	545.6	1,353.8	340.9
20263 13	Manufactured and creamed at the plant		138	964.6	472.6	1,174.0	287.9
20263 16	Manufactured at the plant, sold as curd (not creamed)		14	*44.9	26.1	45.8	13.6
20263 18	Creamed at the plant from purchased curd		11	64.6	30.3	99.7	30.5
20263 00	Cottage cheese, n.s.k.	Million lb....	(NA)	(X)	16.6	34.3	8.9
20264 --	Buttermilk, chocolate drinks, and other flavored milk products	Million qt....	(NA)	(X)	851.7	1,544.1	423.1
20264 32	Yogurt		55	(S)	215.9	720.3	194.5
20264 34	Buttermilk and related products (acidophilus milk, etc.)		169	488.7	168.7		
20264 35	Flavored milk drinks (chocolate milk, chocolate drinks, etc.)		300	1,117.3	442.6	794.4	215.4
20264 00	Buttermilk, chocolate drinks, and other dairy drinks, n.s.k.	Million qt....	(NA)	(X)	24.5	29.4	13.2
20260 00	Fluid milk and related products, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	467.9	(X)	456.9
20260 02	Fluid milk and related products, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	268.4	(X)	104.0

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20221, NATURAL CHEESE, EXCEPT COTTAGE CHEESE		
United States	2,727.2	1,400.0
New England Division:		
Vermont	73.1	12.0
Middle Atlantic Division:		
New York	227.3	91.2
New Jersey	28.3	AA
Pennsylvania	43.0	GG
East North Central Division:		
Ohio	64.8	FF
Indiana	64.4	34.5
Illinois	111.3	78.8
Wisconsin	1,009.1	552.8
West North Central Division:		
Minnesota	302.3	70.9
Iowa	151.7	46.7
Missouri	95.9	118.7
North Dakota	17.9	9.7
South Dakota	33.8	16.4
Nebraska	52.8	31.6
Kansas	7.9	18.5
East South Central Division:		
Kentucky	69.2	25.5
Tennessee	40.7	FF
Mountain Division:		
Idaho	76.8	61.0
Utah	62.1	21.1
Pacific Division:		
Washington	33.1	4.3
Oregon	6.7	13.9
California	59.6	6.3
20222, PROCESSED CHEESE AND RELATED PRODUCTS		
United States	2,518.5	1,134.1
Middle Atlantic Division:		
Pennsylvania	138.8	GG
East North Central Division:		
Wisconsin	873.3	401.4
West North Central Division:		
Minnesota	442.9	192.0
Missouri	395.7	189.2
South Dakota	26.1	13.5
West South Central Division:		
Texas	25.5	BB
Pacific Division:		
California	28.2	EE
20231, DRY MILK PRODUCTS		
United States	1,735.4	880.4
Middle Atlantic Division:		
New York	71.0	23.4
Pennsylvania	22.8	18.2
East North Central Division:		
Ohio	119.1	17.4
Indiana	2.3	4.0
Illinois	125.7	87.6
Michigan	108.0	43.0
Wisconsin	424.1	206.0
West North Central Division:		
Minnesota	212.6	140.4
Iowa	211.0	139.2
Missouri	8.2	10.9
East South Central Division:		
Kentucky	25.8	11.2
Tennessee	17.0	CC

Product class and geographic area	Value of product shipments	
	1977	1972
20231, DRY MILK PRODUCTS--Con.		
Mountain Division:		
Utah	2.2	BB
Pacific Division:		
Oregon	7.2	BB
California	164.4	59.1
20232, CANNED MILK PRODUCTS, CONSUMER TYPE CANS		
United States	672.4	427.6
East North Central Division:		
Ohio	138.7	76.7
Illinois	29.3	12.9
West North Central Division:		
Missouri	87.2	GG
Pacific Division:		
California	45.7	FF
20233, CONDENSED AND EVAPORATED MILK PRODUCTS, BULK		
United States	264.2	132.0
Middle Atlantic Division:		
New York	26.3	17.0
Pennsylvania	15.6	12.8
East North Central Division:		
Ohio	13.7	(NA)
Michigan	14.0	10.0
Wisconsin	90.0	45.4
West North Central Division:		
Minnesota	20.7	6.2
Missouri	5.1	1.3
East South Central Division:		
Tennessee	7.5	2.2
Pacific Division:		
California	10.7	5.3
20234, ICE CREAM MIX AND ICE MILK MIX		
United States	293.4	227.7
Middle Atlantic Division:		
New York	20.8	17.1
New Jersey	8.6	3.3
Pennsylvania	13.6	14.6
East North Central Division:		
Ohio	24.7	14.3
Indiana	7.7	2.4
Illinois	10.3	18.1
Michigan	3.8	4.9
Wisconsin	9.9	5.4
West North Central Division:		
Iowa	3.1	5.2
Missouri	5.2	4.9
Kansas	2.2	1.6
South Atlantic Division:		
Maryland	10.7	12.4
Virginia	10.3	BB
North Carolina	4.5	2.6
Georgia	4.0	1.6
Florida	11.7	4.8
East South Central Division:		
Tennessee	8.2	8.7
West South Central Division:		
Arkansas	5.5	(NA)
Louisiana	2.5	4.5
Oklahoma	3.3	1.7
Texas	8.5	5.5

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** - Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20234, ICE CREAM MIX AND ICE MILK MIX--Con.		
Pacific Division:		
Washington	8.2	11.6
Oregon	5.2	5.2
California	40.2	24.5
20261, BULK FLUID MILK AND CREAM (INCLUDING BUTTERMILK)		
United States	2,123.8	1,258.9
New England Division:		
Maine	8.6	CC
Vermont	69.4	28.8
Massachusetts	43.9	11.1
Middle Atlantic Division:		
New York	113.1	112.3
New Jersey	20.4	11.4
Pennsylvania	68.7	63.8
East North Central Division:		
Ohio	133.6	63.1
Indiana	28.1	19.5
Illinois	51.3	31.3
Michigan	54.9	31.0
Wisconsin	386.1	211.5
West North Central Division:		
Minnesota	228.3	160.6
Iowa	128.6	77.9
North Dakota	12.3	3.1
South Dakota	23.5	12.8
Nebraska	5.8	4.3
Kansas	7.9	13.6
South Atlantic Division:		
Maryland	29.4	12.7
Virginia	33.8	15.4
West Virginia	4.9	AA
North Carolina	22.4	12.9
South Carolina	8.1	2.0
Georgia	7.8	4.8
Florida	17.6	7.8
East South Central Division:		
Kentucky	26.3	10.5
Tennessee	23.5	8.6
Alabama	4.8	17.8
Mississippi	8.9	1.4
West South Central Division:		
Arkansas	2.7	3.0
Oklahoma	2.7	6.2
Texas	13.3	17.4
Mountain Division:		
Montana	3.4	2.3
Idaho	21.9	10.7
Colorado	4.3	2.9
New Mexico	2.1	1.4
Utah	3.2	3.3
Pacific Division:		
Washington	39.2	26.1
Oregon	29.4	[illegible]
California	193.2	110.0
20262, PACKAGED FLUID MILK AND RELATED PRODUCTS		
United States	7,345.5	5,078.9
New England Division:		
Maine	40.1	37.0
New Hampshire	15.8	20.8
Vermont	34.6	15.2
Massachusetts	225.9	176.0
Connecticut	104.5	75.9
Middle Atlantic Division:		
New York	562.0	350.2
New Jersey	203.2	130.0
Pennsylvania	386.9	344.7

Product class and geographic area	Value of product shipments	
	1977	1972
20262, PACKAGED FLUID MILK AND RELATED PRODUCTS--Con.		
East North Central Division:		
Ohio	385.3	295.6
Indiana	208.2	143.3
Illinois	371.5	307.8
Michigan	367.6	238.8
Wisconsin	151.1	122.8
West North Central Division:		
Minnesota	142.3	98.9
Iowa	107.1	64.8
Missouri	183.3	141.0
North Dakota	24.0	17.0
South Dakota	29.7	16.2
Nebraska	51.1	44.8
Kansas	83.8	53.7
South Atlantic Division:		
Maryland	177.5	107.8
Virginia	154.7	108.0
West Virginia	46.9	30.6
North Carolina	147.5	111.4
South Carolina	111.3	71.6
Georgia	132.1	78.4
Florida	322.2	220.0
East South Central Division:		
Kentucky	100.2	72.8
Tennessee	163.1	98.8
Alabama	123.5	89.9
Mississippi	65.4	38.4
West South Central Division:		
Arkansas	50.6	33.3
Louisiana	128.9	88.4
Oklahoma	92.4	58.5
Texas	424.4	250.7
Mountain Division:		
Montana	23.6	17.5
Idaho	22.4	14.1
Colorado	85.9	63.0
New Mexico	26.6	20.5
Arizona	90.8	58.4
Utah	49.1	37.8
Nevada	17.9	15.0
Pacific Division:		
Washington	128.6	76.8
Oregon	90.1	54.7
California	841.2	476.3
Hawaii	30.1	FF
20263, COTTAGE CHEESE		
United States	545.6	340.9
New England Division:		
Vermont	5.7	4.4
Middle Atlantic Division:		
New York	85.2	50.3
Pennsylvania	41.8	FF
East North Central Division:		
Ohio	32.7	22.6
Indiana	9.8	9.3
Illinois	16.7	20.7
Michigan	17.5	15.2
Wisconsin	39.6	16.0
West North Central Division:		
Minnesota	7.8	9.7
Iowa	8.7	5.2
Missouri	15.0	10.6
Nebraska	4.7	BB
Kansas	11.4	7.4
South Atlantic Division:		
Maryland	8.0	6.2
Virginia	4.4	3.4
North Carolina	4.4	4.5

See footnotes at end of table.

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972 — Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20263, COTTAGE CHEESE--Con.		
East South Central Division:		
Tennessee	6.5	4.4
West South Central Division:		
Oklahoma	7.6	3.2
Texas	15.9	7.8
Mountain Division:		
Colorado	8.3	4.9
New Mexico	4.3	1.9
Arizona	7.2	BB
Pacific Division:		
Washington	15.0	7.9
Oregon	6.7	5.6
California	107.3	59.4
20264, BUTTERMILK AND FLAVORED MILK PRODUCTS		
United States	851.7	423.1
New England Division:		
Maine	2.2	1.7
Massachusetts	22.6	8.4
Connecticut	5.6	2.5
Middle Atlantic Division:		
New York	79.8	39.4
New Jersey	18.8	9.6
Pennsylvania	22.7	19.1
East North Central Division:		
Ohio	74.8	27.1
Indiana	21.4	11.0
Illinois	32.3	25.4
Michigan	28.2	13.9
Wisconsin	13.3	8.7
20264, BUTTERMILK AND FLAVORED MILK PRODUCTS--Con.		
West North Central Division:		
Minnesota	8.4	7.2
Iowa	11.4	4.1
Missouri	13.6	8.6
Nebraska	2.0	1.7
Kansas	5.2	3.1
South Atlantic Division:		
Maryland	28.1	13.2
Virginia	17.9	9.8
West Virginia	4.6	2.6
North Carolina	34.0	23.5
South Carolina	15.3	8.4
Georgia	31.5	16.1
Florida	40.3	13.6
East South Central Division:		
Kentucky	9.9	7.2
Tennessee	26.6	13.0
Alabama	22.1	10.3
Mississippi	15.3	8.6
West South Central Division:		
Arkansas	4.5	2.6
Louisiana	19.4	7.5
Oklahoma	11.3	4.3
Texas	62.1	28.3
Mountain Division:		
Colorado	7.5	3.7
New Mexico	3.1	1.5
Arizona	5.9	3.0
Utah	5.0	AA
Pacific Division:		
Washington	11.4	4.7
Oregon	7.3	2.5
California	90.8	36.0

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available.

Table 6c. Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
20210	Creamery butter (including anhydrous butterfat).....	1,109.7	853.9	789.5	656.3	755.6	791.1	836.5	820.4
2022-	Cheese, natural and processed.....	5,528.1	5,233.3	4,391.8	4,048.7	3,238.8	2,753.7	1,533.8	1,070.0
20221	Natural cheese, except cottage cheese.....	2,727.2	3,269.9	2,668.7	2,458.7	1,705.9	1,400.0	829.2	681.5
20222	Processed cheese and related products.....	2,518.5	1,859.7	1,654.4	1,496.6	1,363.5	1,134.1	562.6	388.5
20220	Cheese, natural and processed, n.s.k.....	282.3	(103.7)	(68.7)	(93.4)	169.4	219.6	142.1	-
2023-	Condensed and evaporated milk.....	3,086.1	2,569.2	2,503.7	2,315.1	1,916.0	1,706.2	1,422.7	1,104.5
20231	Dry milk products.....	1,735.4	1,465.7	1,432.0	1,338.8	980.7	880.4	632.0	504.4
20232	Canned milk products, consumer type cans.....	672.4	584.1	560.5	526.3	492.8	427.6	475.5	363.0
20233	Condensed and evaporated milk products, bulk.....	264.2	170.4	148.8	134.2	140.8	132.0	79.3	75.3
20234	Ice cream mix and ice milk mix.....	293.2	344.8	353.0	304.3	261.6	227.7	201.1	157.8
20230	Condensed and evaporated milk, n.s.k.....	121.0	(S)	(S)	11.5	40.1	38.5	34.8	3.9
20240	Ice cream and frozen desserts.....	2,229.4	2,063.3	2,012.9	1,787.9	1,639.5	1,519.4	1,273.6	1,210.0
2026-	Fluid milk.....	11,602.8	11,151.2	10,328.9	9,578.5	8,503.5	7,662.7	6,603.4	6,016.6
20261	Bulk fluid milk and cream (including buttermilk).....	2,123.8	2,675.0	2,251.1	1,949.2	1,373.7	1,258.9	923.5	950.3
20262	Packaged fluid milk and related products.....	7,345.5	7,170.3	6,793.4	6,378.1	5,754.1	5,078.9	4,454.9	4,285.1
20263	Cottage cheese.....	545.6	530.7	508.7	456.0	405.6	340.9	218.0	189.1
20264	Buttermilk and flavored milk products.....	851.7	643.0	572.3	512.0	449.8	423.1	286.0	252.7
20260	Fluid milk, n.s.k.....	736.3	(132.2)	(203.4)	(283.2)	520.3	560.9	721.0	339.2

- Represents zero. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2021, CREAMERY BUTTER					
	Materials, ingredients, containers, and supplies	.....	(X)	783.5	(X)	690.2
024111	Whole milk	Million cwt.	21.4	189.2	53.1	283.2
202612	Fluid skim milk	↕	2.0	10.0	6.4	16.7
202613	Cream	Million cwt.	7.8	461.0	7.3	265.6
202101	Butter	Million lb.	-	-	[2]34.6	[2]22.9
202301	Condensed and evaporated milk	↕	4.6	1.8	56.9	7.2
202311	Dry milks	Million lb.	.8	.5	1.1	.3
265001	Paperboard containers and boxes	.....	(X)	8.1	(X)	(X)
970099	All other materials, ingredients, containers, and supplies	.....	(X)	19.4	(X)	23.2
971000	Materials, ingredients, containers, and supplies, n.s.k.[3]	.....	(X)	93.5	(X)	71.1
	INDUSTRY 2022, CHEESE, NATURAL AND PROCESSED					
	Materials, ingredients, containers, and supplies	.....	(X)	4,616.2	(X)	2,540.5
024111	Whole milk	Million cwt.	257.4	2,352.6	192.6	1,025.2
202612	Fluid skim milk	↕	13.7	72.6	5.9	18.3
202613	Cream	Million cwt.	*2.2	97.1	1.3	47.8
202210	Natural cheese, other than cottage cheese	Million lb.	*1,279.6	1,307.4	1,416.3	860.9
202301	Condensed and evaporated milk	↕	(S)	1.7	20.3	1.2
202311	Dry milks	↕	40.8	25.7	39.1	13.4
202302	Whey, liquid, concentrated, dried, and modified whey products	Million lb.	**737.5	11.8	(X)	(X)
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	.....	(X)	17.8	(X)	(X)
	Containers:					
322101	Glass containers	1,000 gross.	(D)	(D)	(X)	(X)
307940	Plastics containers	.....	(D)	(D)	(X)	(X)
265001	Paperboard containers and boxes	.....	(X)	62.0	(X)	(X)
341101	Metal cans	.....	(D)	(D)	(X)	(X)
970099	All other materials, ingredients, containers, and supplies	.....	(X)	205.5	(X)	380.7
971000	Materials, ingredients, containers, and supplies, n.s.k.[3]	.....	(X)	442.2	(X)	193.0
	INDUSTRY 2023, CONDENSED AND EVAPORATED MILK					
	Materials, ingredients, containers, and supplies	.....	(X)	2,242.2	(X)	1,026.1
024111	Whole milk	Million cwt.	140.6	1,278.0	90.2	462.5
202612	Fluid skim milk	↕	(S)	32.5	11.7	31.6
202613	Cream	Million cwt.	*1.4	77.6	.7	26.1
206011	Sugar (cane and beet) in terms of sugar solids	1,000 cwt.	1,957.7	32.0	1,476.9	16.4
202301	Condensed and evaporated milk	Million lb.	**178.5	50.6	701.8	57.3
202311	Dry milks	↕	233.8	146.4	299.4	102.1
202302	Whey, liquid, concentrated, and dried, and modified whey products	Million lb.	1,112.8	38.7	(X)	(X)
	Containers:					
322101	Glass containers	1,000 gross.	(S)	27.3	(X)	(X)
307940	Plastic containers	.....	(X)	1.4	(X)	(X)
265001	Paperboard containers and boxes	.....	(X)	48.2	(X)	(X)
341101	Metal cans	.....	(X)	78.4	(X)	(X)
970099	All other materials, ingredients, containers, and supplies	.....	(X)	336.6	(X)	276.1
971000	Materials, ingredients, containers, and supplies, n.s.k.[3]	.....	(X)	94.5	(X)	54.0
	INDUSTRY 2024, ICE CREAM AND FROZEN DESSERTS					
	Materials, ingredients, containers, and supplies	.....	(X)	1,131.3	(X)	658.0
024111	Whole milk	Million cwt.	*11.9	147.2	6.9	46.2
202612	Fluid skim milk	↕	(S)	13.9	1.3	6.9
202613	Cream	Million cwt.	4.0	205.6	3.6	125.8
202101	Butter	Million lb.	**5.7	6.1	7.3	5.7
202401	Ice cream mix, sherbet mix, and ice milk mix	1,000 gal.	*40.3	73.7	66.9	71.0
206011	Sugar (cane and beet) in terms of sugar solids	1,000 cwt.	4,031.3	56.8	4,280.5	45.2
202301	Condensed and evaporated milk	Million lb.	198.1	57.2	400.3	48.8
202311	Dry milks	↕	49.5	32.0	65.3	16.5
202302	Whey, liquid, concentrated, dried, and modified whey products	Million lb.	67.3	8.0	(X)	(X)
	Containers:					
307940	Plastic containers	.....	(X)	(D)	(X)	(X)
265001	Paperboard containers and boxes	.....	(X)	120.1	(X)	(X)
341101	Metal cans	.....	(X)	(D)	(X)	(X)
970099	All other materials, ingredients, containers, and supplies	.....	(X)	246.2	(X)	190.2
971000	Materials, ingredients, containers, and supplies, n.s.k.[3]	.....	(X)	151.8	(X)	101.7

See footnotes at end of table.

Table 7. Materials Consumed by Kind: 1977 and 1972 – Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2026, FLUID MILK					
	Materials, ingredients, containers, and supplies	.....	(X)	9,167.4	(X)	5,948.7
024111	Whole milk	Million cwt....	*632.0	6,429.8	671.9	4,297.4
202612	Fluid skim milk	↕	*30.9	195.7	21.9	84.2
202613	Cream	Million cwt....	3.7	172.1	3.9	134.4
202401	Ice cream mix, sherbet mix, and ice milk mix	1,000 gal.....	44.1	60.6	65.6	51.6
206011	Sugar (cane and beet) in terms of sugar solids	1,000 cwt.....	*6,134.0	79.0	5,620.8	62.8
202301	Condensed and evaporated milk	Million lb.....	161.8	38.4	183.2	18.6
202311	Dry milks	↑	173.3	101.9	157.4	51.9
202302	Whey, liquid, concentrated, and dried; and modified whey products	↕	**82.6	12.0	(X)	(X)
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	Million lb.....	154.5	46.6	(X)	(X)
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	.....	(X)	3.4	(X)	(X)
	Containers:					
322101	Glass containers	1,000 gross....	**311.4	8.7	(X)	(X)
307940	Plastic containers	.....	(X)	187.7	(X)	(X)
265001	Paperboard containers and boxes	.....	(X)	403.3	(X)	(X)
341101	Metal cans	.....	(X)	19.8	(X)	(X)
970099	All other materials, ingredients, containers, and supplies	.....	(X)	518.3	(X)	729.2
971000	Materials, ingredients, containers, and supplies, n.s.k.[3]	.....	(X)	890.1	(X)	518.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.s.k. Not specified by kind.
(S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]Cost of delivered butter probably should have been reported by respondents as part of their cost of resales.

[3]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

Table 8. Employees Engaged in Transportation (Industry 2026): 1977

Item	Total		Employees of establishments reporting transportation employees			Employees of establishments not reporting transportation employees (1,000)	Coverage ratio C/A	Employees ratio of transportation activity to total E/C
				Engaged in transportation				
	Employees (1,000)	Payroll (millions)	Total (1,000)	Employees (1,000)	Payroll (millions)			
	A	B	C	D	E	F	G	H
Fluid milk	93.5	1,215.4	63.6	21.9	627.5	29.9	.68	.34

Note: Establishments in selected industries were instructed to report number of employees, included in total employment, that were engaged in delivery of products sold by that establishment utilized as a separate work force. Coverage Ratio (Column 7) indicates proportion of industry employment represented by establishments that reported transportation employees. Coverage Ratio excludes (a) delivery workers not employed by establishment (e.g., working under contract or provided by another establishment of company), (b) establishments that reported having no transportation employees, (c) establishments that did not respond to inquiry, and (d) establishments that were not mailed a form, or from which a form had not been received at time data were tabulated.

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DESCRIPTION OF INDUSTRIES

PRESERVED FRUITS AND VEGETABLES

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2032	Canned Specialties
2033	Canned Fruits and Vegetables
2034	Dehydrated Fruits, Vegetables, and Soups
2035	Pickles, Sauces, and Salad Dressings
2037	Frozen Fruits and Vegetables
2038	Frozen Specialties

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2032, CANNED SPECIALTIES

This industry comprises establishments primarily engaged in canning specialty products, such as baby foods, "native foods," health foods, and soups except seafood. Establishments primarily engaged in canning seafoods other than frozen are classified in industry 2091, frozen seafoods in industry 2092, and those primarily engaged in quick frozen canned specialties in industry 2038.

The total value of production for establishments classified in the Canned Specialties industry amounted to $2,829 million in 1977, an increase of 51 percent from 1972. The value of production of products classified as primary to the industry was $2,429 million, an increase of 49 percent from 1972. The change reflected a general trend in the value of production of most of the products of the industry. Value added by manufacture, at $1,143 million in 1977, was 40 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 26.4 thousand employees, a decrease of 9 percent from 1972. The leading States in employment were California, Pennsylvania, Texas, and New Jersey, accounting for approximately 50 percent of the industry's 1977 employment. Data for New Jersey have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agenices or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

INDUSTRY 2033, CANNED FRUITS AND VEGETABLES

This industry comprises establishments primarily engaged in canning fruits, vegetables, and fruit and vegetable juices; and in manufacturing catsup and similar tomato sauces, preserves, jams, and jellies. Establishments primarily engaged in canning seafoods (except frozen) are classified in industry 2091; and canned specialties, baby foods, and soups (except seafood) in industry 2032.

The total value of production for establishments classified in the Canned Fruits and Vegetables industry amounted to $6,667 million in 1977, an increase of 65 percent from 1972. The value of production of products classified as primary to the industry was $6,621 million, an increase of 65 percent from 1972. The change reflected a general trend in the value of production of most of the products of the industry. Value added by manufacture, at $2,546 million in 1977, was 57 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 82.6 thousand employees, a decrease of 8 percent from 1972. The leading States in employment were California, Wisconsin, Florida, and New York, accounting for approximately 50 percent of the industry's 1977 employment. This represents a shift from 1972 when California, Wisconsin, Florida and Hawaii accounted for 47 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agenices or developed from industry averages. These establishments accounted for 3 percent of total value of shipments.

INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS

This industry comprises establishments primarily engaged in sun drying or artificially dehydrating fruits and vegetables, or in manufacturing packaged soup mixes from dehydrated ingredients. Establishments primarily engaged in the grading and marketing of farm dried fruits, such as prunes and raisins, are classified in industry 5149.

The total value of shipments for establishments classified in the Dehydrated Fruits, Vegetables, and Soups industry amounted to $1,142 million in 1977, an increase of 88 percent from 1972. The value of shipments of products classified as primary to the industry was $1,200 million, an increase of 92 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $486 million in 1977, was 106 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 14.4 thousand employees, an increase of 16 percent from 1972. The leading States in employment were California, Idaho, New Jersey, and Washington, accounting for approximately 80 percent of the industry's 1977 employment. Data for New Jersey have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agenices or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS

This industry comprises establishments primarily engaged in pickling and brining fruits and vegetables, and in manufacturing salad dressings, vegetable relishes, sauces, and seasonings. Establishments primarily engaged in the manufacture of catsup and similar tomato sauces are classified in industry 2033, and those packing purchased pickles and olives in trade industries.

The total value of shipments for establishments classified in the Pickles, Sauces, and Salad Dressings industry amounted to $2,997 million in 1977, an increase of 157 percent from 1972. The value of production of products classified as primary to the industry was $2,243 million, an increase of 92 percent from 1972. The products accounting for a significant portion of this change were mayonnaise, for which value of production increased 124 percent, and dill finished cucumber pickles, for which value of production increased 101 percent. The change reflected a general trend in the value of production of most of the products of the industry. Value added by manufacture, at $987 million in 1977, was 130 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 23.5 thousand employees, an increase of 13 percent from 1972. The leading States in employment were California, Illinois, Michigan, and Georgia, accounting for approximately 45 percent of the industry's 1977 employment.

For 1977, the industry classification of several establishments changed to this industry because of a change in the products they produced. As a result, 1977 General Statistics data are not completely comparable with data for prior years.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agenices or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES

This industry comprises establishments primarily engaged in freezing and cold packing (freezing) fruits, fruit juices, and vegetables. Establishments primarily engaged in freezing and cold packing (freezing) food specialties, such as frozen dinners and frozen pizzas, are classified in industry 2038.

The total value of shipments for establishments classified in the Frozen Fruits and Vegetables industry amounted to $3,298 million in 1977, an increase of 78 percent from 1972. The value of production of products classified as primary to the industry was $3,047 million, an increase of 85 percent from 1972. The change reflected a general trend in the value of production of most of the products of the industry. Value added by manufacture, at $1,323 million in 1977, was 90 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 46.8 thousand employees, an increase of 9 percent from 1972. The leading States in employment were California, Florida, Idaho, and Oregon, accounting for approximately 65 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number

of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agenices or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2038, FROZEN SPECIALTIES

This industry comprises establishments primarily engaged in freezing and cold packing (freezing) food specialties, such as frozen dinners and frozen pizza. Establishments primarily engaged in freezing and cold packing fruits, fruit juices, and vegetables are classified in industry 2037.

The total value of shipments for establishments classified in the Frozen Specialties industry amounted to $3,404 million in 1977, an increase of 76 percent from 1972. The value of production of products classified as primary to the industry was $2,912 million, an increase of 67 percent from 1972. The change reflected a general trend in the value of production of most of the products of the industry. Value added by manufacture, at $1,218 million in 1977, was 70 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 41.0 thousand employees, an increase of 7 percent from 1972. The leading States in employment were California, Ohio, Illinois, and Pennsylvania, accounting for approximately 35 percent of the industry's 1977 employment. Data for Pennsylvania have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided. These same States were in the forefront for 1972 when they accounted for approximately 35 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

Establishments of single-unit companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agenices or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2032, CANNED SPECIALTIES																
1977 Census--	172	200	88	26.4	296.5	21.5	42.4	224.3	[9]1 142.6	1 687.7	[9]2 829.2	46.7	(NA)	527.8	80	89
1976 ASM----	(NA)	(NA)	(NA)	[r]28.9	[r]286.3	[r]23.9	[r]45.0	[r]214.0	[9]1 123.4	[r]1 633.3	[9]2 757.3	[r]41.7	[r]638.6	[r]475.7	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	[r]27.5	[r]265.8	[r]22.3	[r]45.3	[r]200.3	[9]1 057.0	[r]1 545.4	[9]2 590.3	[r]28.0	[r]631.0	[r]464.3	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	[r]29.2	[r]248.9	[r]23.6	[r]46.9	[r]189.8	[9]887.2	[r]1 507.8	[9]2 382.0	[r]41.1	[r]595.4	[r]485.7	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	30.2	250.6	24.0	48.6	186.2	[9]883.3	1 307.1	[9]2 187.3	46.2	616.7	417.4	(NA)	(NA)
1972 Census--	178	203	88	29.1	217.6	24.0	48.9	167.0	[9]814.6	1 062.3	[9]1 876.6	44.1	557.3	347.5	81	91
1971 ASM----	(NA)	(NA)	(NA)	27.4	199.3	22.8	43.7	150.7	[9]737.4	990.8	[9]1 729.2	41.3	493.0	368.4	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	27.9	182.3	23.1	43.8	136.8	[9]715.4	884.4	[9]1 599.8	27.9	457.0	309.4	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	29.2	178.9	24.0	46.5	133.3	[9]680.5	869.6	[9]1 550.2	32.9	449.6	305.0	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	28.5	170.0	23.3	46.2	124.8	[9]715.2	856.7	[9]1 571.7	22.7	430.8	279.3	(NA)	(NA)
1967 Census--	150	175	83	27.2	157.3	22.4	45.0	115.1	[9]602.1	760.5	[9]1 361.9	28.1	412.7	248.3	82	91
1966 ASM----	(NA)	(NA)	(NA)	28.9	156.8	23.7	47.2	114.9	[9]645.3	811.2	[9]1 456.9	40.8	(NA)	240.2	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	27.4	146.5	22.4	45.4	107.3	[9]613.2	755.8	[9]1 368.1	30.7	(NA)	226.1	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	25.7	135.0	20.8	41.6	97.5	[9]564.9	664.0	[9]1 230.6	24.0	330.7	203.7	(NA)	(NA)
1963 Census--	154	173	77	25.2	127.2	20.4	40.7	92.3	[9]540.8	627.5	[9]1 169.3	25.6	311.8	223.4	80	91
INDUSTRY 2033, CANNED FRUITS AND VEGETABLES																
1977 Census--	550	900	519	82.6	789.8	72.6	135.0	636.6	[9]2 546.1	4 135.3	[9]6 666.5	147.1	(NA)	2 233.5	80	89
1976 ASM----	(NA)	(NA)	(NA)	82.2	728.1	73.3	131.3	582.7	[9]2 342.1	3 888.9	[9]6 217.5	155.6	1 664.7	2 097.4	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	83.6	707.3	74.9	141.4	570.7	[9]2 067.7	3 943.8	[9]5 988.6	185.8	1 582.9	1 925.1	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	85.4	647.7	76.9	145.2	523.0	[9]1 853.3	3 585.7	[9]5 430.7	164.7	1 430.8	1 709.4	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	88.8	595.3	78.0	146.3	476.7	[9]1 898.9	2 765.9	[9]4 644.0	135.4	1 386.9	1 286.5	(NA)	(NA)
1972 Census--	765	1 038	521	89.8	559.9	78.8	147.1	447.9	[9]1 625.1	2 414.8	[9]4 043.8	113.1	1 303.3	1 197.0	89	94
1971 ASM----	(NA)	(NA)	(NA)	94.2	550.0	82.9	157.4	444.0	[9]1 527.6	2 351.5	[9]3 878.2	101.9	1 264.5	1 301.4	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	96.3	524.0	84.9	157.7	416.4	[9]1 428.7	2 194.8	[9]3 629.8	109.6	1 201.7	1 280.6	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	101.5	526.1	90.4	171.1	422.8	[9]1 382.6	2 298.9	[9]3 676.6	112.2	1 180.9	1 317.5	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	104.0	516.0	92.5	173.5	409.5	[9]1 312.7	2 341.5	[9]3 654.1	99.5	1 085.5	1 290.1	(NA)	(NA)
1967 Census--	630	1 223	732	100.0	473.8	88.9	174.0	376.0	[9]1 413.3	2 065.4	[9]3 467.8	101.9	1 053.4	1 085.9	90	93
1966 ASM----	(NA)	(NA)	(NA)	101.0	433.9	88.4	167.6	341.1	[9]1 285.6	1 932.9	[9]3 215.8	84.8	(NA)	957.7	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	100.6	407.1	88.1	166.1	317.8	[9]1 179.2	1 811.7	[9]2 982.0	74.5	(NA)	922.4	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	102.3	404.5	89.8	168.9	320.3	[9]1 113.2	1 847.6	[9]2 966.3	78.3	853.5	1 002.9	(NA)	(NA)
1963 Census--	1 135	1 430	836	102.4	382.1	90.7	168.2	303.5	[9]1 029.5	1 707.3	[9]2 742.8	56.6	793.8	954.0	89	91
INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS																
1977 Census--	143	184	87	14.4	153.9	11.7	22.1	111.5	485.9	685.3	1 142.4	52.5	(NA)	281.9	94	88
1976 ASM----	(NA)	(NA)	(NA)	12.5	122.1	10.5	18.8	86.2	425.6	621.9	1 048.8	47.0	320.4	268.5	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	12.9	114.0	10.8	18.7	81.8	405.8	546.1	919.5	43.7	296.9	247.5	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	12.8	99.8	10.9	19.3	72.2	417.5	538.8	923.9	38.5	250.9	212.6	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	12.2	89.2	10.2	18.5	67.0	315.9	406.0	720.5	16.8	227.2	156.7	(NA)	(NA)
1972 Census--	133	178	88	12.4	84.3	10.6	19.8	63.0	235.7	351.7	607.3	18.9	208.6	140.4	95	90
1971 ASM----	(NA)	(NA)	(NA)	11.1	74.5	9.1	17.0	53.8	237.7	301.6	538.3	13.8	182.3	149.8	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	11.2	70.7	9.2	16.9	51.3	221.7	277.1	486.0	17.2	178.4	144.9	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	11.9	67.8	10.0	18.3	50.9	192.0	281.4	463.2	12.3	156.4	133.2	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	11.9	62.8	9.9	17.8	46.8	184.1	269.2	439.3	11.0	144.1	123.6	(NA)	(NA)
1967 Census--	134	178	81	11.1	58.0	9.4	18.1	44.0	167.7	255.2	420.8	14.6	140.9	108.6	94	96
1966 ASM----	(NA)	(NA)	(NA)	10.1	49.0	8.6	16.9	37.8	161.7	246.2	395.2	14.1	(NA)	100.2	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	9.6	46.3	8.4	16.1	35.0	130.7	230.5	363.7	11.0	(NA)	85.5	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	9.2	42.5	7.8	15.2	32.1	127.6	203.0	321.2	10.4	91.7	91.6	(NA)	(NA)
1963 Census--	126	176	80	9.2	41.7	7.8	15.3	31.2	115.8	208.9	318.7	16.2	84.8	89.8	96	89
INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS																
1977 Census--	380	438	168	23.5	250.2	18.9	35.7	184.9	[9]986.5	2 003.8	[9]2 996.5	52.3	(NA)	447.8	89	86
1976 ASM----	(NA)	(NA)	(NA)	19.3	180.2	15.8	30.2	129.3	[9]586.0	1 068.7	[9]1 654.4	36.6	344.9	278.1	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	19.2	166.5	15.8	30.5	118.3	[9]558.7	1 169.8	[9]1 720.8	36.8	330.6	278.7	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	19.3	160.1	16.1	31.6	110.5	[9]470.4	1 118.0	[9]1 586.7	39.5	320.8	256.2	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	19.8	144.5	15.8	29.9	100.0	[9]448.9	781.0	[9]1 228.7	24.3	282.7	213.2	(NA)	(NA)
1972 Census--	429	495	191	20.8	146.2	16.6	32.4	102.2	[9]428.0	738.7	[9]1 166.7	43.4	285.1	210.5	80	78
1971 ASM----	(NA)	(NA)	(NA)	21.2	140.9	16.6	32.7	100.3	[9]431.2	768.9	[9]1 198.2	29.8	304.7	223.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	20.9	130.6	16.6	33.1	93.5	[9]415.3	713.6	[9]1 125.3	35.3	285.9	208.6	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	20.9	114.1	16.8	32.4	82.9	[9]360.0	574.9	[9]937.2	20.8	226.0	186.3	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	19.5	104.9	15.7	29.9	77.0	[9]315.0	536.5	[9]854.0	15.3	204.8	163.2	(NA)	(NA)
1967 Census--	479	527	182	19.8	100.5	16.2	31.7	72.0	[9]295.5	526.6	[9]818.9	14.9	196.8	153.2	81	80
1966 ASM----	(NA)	(NA)	(NA)	21.1	101.1	16.9	33.5	68.2	[9]273.0	546.3	[9]817.5	14.4	(NA)	134.1	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	19.7	91.1	15.9	31.1	61.7	[9]280.3	503.3	[9]784.0	11.0	(NA)	120.4	(NA)	(NA)
1964 ASM[5]---	(NA)	(NA)	(NA)	18.7	87.7	14.9	29.8	60.4	[9]255.1	470.6	[9]726.4	15.9	213.2	113.8	(NA)	(NA)
1963 Census--	541	586	184	19.0	83.7	15.4	29.9	58.3	[9]249.4	427.6	[9]677.3	11.0	201.8	110.4	79	82

See footnotes at end of table

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES[3]																
1977 Census--	190	260	193	46.8	425.9	41.5	78.5	344.7	[9]1 322.5	1 972.0	[9]3 297.5	87.7	(NA)	724.4	89	89
1976 ASM----	(NA)	(NA)	(NA)	40.3	342.7	35.2	66.8	273.2	[9]1 188.9	1 641.8	[9]2 830.4	64.5	798.5	633.3	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	42.8	331.5	37.7	69.0	265.5	[9]1 006.2	1 675.8	[9]2 675.4	71.5	779.5	653.3	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	44.3	327.2	39.0	75.8	263.5	[9]929.4	1 550.6	[9]2 468.1	80.2	742.6	655.7	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	44.1	293.8	38.3	75.4	236.6	[9]758.2	1 279.6	[9]2 035.0	75.3	642.4	457.3	(NA)	(NA)
1972 Census--	136	209	191	42.8	261.2	37.6	74.5	208.8	[9]694.6	1 150.4	[9]1 848.8	57.8	579.8	401.9	86	91
INDUSTRY 2038, FROZEN SPECIALTIES[3]																
1977 Census--	331	394	208	41.0	419.8	32.5	63.4	290.9	[9]1 217.7	2 187.5	[9]3 404.4	84.1	(NA)	322.2	93	83
1976 ASM----	(NA)	(NA)	(NA)	38.0	358.4	31.0	60.4	259.1	[9]1 079.5	2 027.5	[9]3 106.9	87.0	599.5	276.1	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	35.8	319.0	29.0	56.1	227.2	[9]903.6	1 896.3	[9]2 803.5	63.8	658.2	253.7	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	38.3	316.7	30.6	59.0	214.8	[9]824.3	1 798.4	[9]2 616.2	68.7	622.1	260.5	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	39.3	284.8	32.2	60.4	203.3	[9]738.0	1 534.9	[9]2 255.7	49.2	542.2	267.3	(NA)	(NA)
1972 Census--	388	435	211	38.3	264.1	31.8	61.5	190.1	[9]716.3	1 221.3	[9]1 935.5	81.0	516.7	203.4	84	82

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2032, CANNED SPECIALTIES											
1977 Census--	11 227	(NA)	81	1 970	5.29	59	70	(NA)	43 271	25	26.96
1976 ASM----	9 908	22 096	82	1 882	4.75	61	71	23	40 719	24	26.15
1975 ASM----	9 565	22 945	81	2 031	4.42	40	51	24	39 958	24	24.25
1974 ASM----	9 000	20 390	80	1 987	4.04	63	74	24	30 383	29	18.91
1973 ASM----	8 298	20 420	79	2 025	3.83	59	71	28	29 248	28	18.17
1972 Census--	7 484	19 151	82	1 954	3.56	58	68	29	27 993	26	17.36
1971 ASM----	7 273	17 992	83	1 916	3.44	57	68	28	26 912	27	16.87
1970 ASM----	6 534	16 379	82	1 896	3.12	55	66	28	25 641	25	16.33
1969 ASM----	6 126	15 397	82	1 937	2.86	56	67	29	23 304	26	14.63
1968 ASM----	5 964	15 115	81	1 982	2.70	54	65	27	25 094	23	15.48
1967 Census--	5 783	15 172	82	2 008	2.55	55	67	30	22 136	26	13.38
1966 ASM----	5 425	(NA)	82	1 991	2.43	55	66	(NA)	22 328	24	13.67
1965 ASM----	5 346	(NA)	81	2 026	2.36	55	65	(NA)	22 379	23	13.50
1964 ASM----	5 252	12 867	80	2 000	2.34	53	64	26	21 980	23	13.57
1963 Census--	5 047	12 373	80	1 995	2.26	53	64	26	21 460	23	13.28
INDUSTRY 2033, CANNED FRUITS AND VEGETABLES											
1977 Census--	9 559	(NA)	87	1 860	4.71	62	73	(NA)	30 819	31	18.85
1976 ASM----	8 857	20 251	89	1 791	4.43	62	74	26	28 492	31	17.83
1975 ASM----	8 460	18 934	89	1 887	4.03	65	77	26	24 733	34	14.62
1974 ASM----	7 584	16 754	90	1 888	3.60	66	77	26	21 701	34	12.76
1973 ASM----	6 718	15 653	88	1 875	3.25	59	72	29	21 432	31	12.97
1972 Census--	6 234	14 513	87	1 866	3.04	59	73	32	18 096	34	11.04
1971 ASM----	5 805	13 423	88	1 898	2.82	60	74	32	16 216	36	9.70
1970 ASM----	5 441	12 478	88	1 857	2.64	60	74	33	14 835	36	9.05
1969 ASM----	5 183	11 634	89	1 892	2.47	62	76	32	13 621	38	8.08
1968 ASM----	4 961	10 437	88	1 875	2.36	64	78	29	12 622	39	7.56
1967 Census--	4 738	10 534	85	1 957	2.16	59	73	30	14 133	33	8.12
1966 ASM----	4 296	(NA)	87	1 895	2.03	60	73	(NA)	12 728	33	7.67
1965 ASM----	4 046	(NA)	87	1 885	1.91	60	74	(NA)	11 721	34	7.09
1964 ASM----	3 954	8 343	87	1 880	1.89	62	75	28	10 881	36	6.59
1963 Census--	3 731	7 751	88	1 854	1.80	62	76	28	10 053	37	6.12
INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS											
1977 Census--	10 687	(NA)	81	1 891	5.04	59	73	(NA)	33 733	31	21.99
1976 ASM----	9 755	25 832	84	1 790	4.69	59	70	30	34 048	28	22.63
1975 ASM----	8 837	23 015	83	1 731	4.37	59	71	32	31 457	28	21.70
1974 ASM----	7 796	19 601	85	1 770	3.74	58	69	27	32 617	23	21.63
1973 ASM----	7 311	18 622	83	1 813	3.62	56	68	31	25 893	28	17.07
1972 Census--	6 796	16 836	85	1 867	3.18	57	71	34	19 008	35	11.90
1971 ASM----	6 711	16 423	81	1 868	3.16	56	69	33	21 414	31	13.98
1970 ASM----	6 312	15 928	82	1 836	3.03	57	71	36	19 794	31	13.11
1969 ASM----	5 697	13 142	84	1 830	2.78	60	75	33	16 134	35	10.49
1968 ASM----	5 277	12 109	83	1 797	2.62	61	75	32	15 470	34	10.34
1967 Census--	5 225	12 593	84	1 925	2.43	60	74	33	15 108	34	9.26
1966 ASM----	4 851	(NA)	85	1 965	2.23	62	74	(NA)	16 009	30	9.55
1965 ASM----	4 724	(NA)	85	1 916	2.17	63	76	(NA)	13 336	35	8.11
1964 ASM----	4 619	9 967	84	1 948	2.11	63	76	28	13 869	33	8.39
1963 Census--	4 532	9 217	84	1 961	2.03	65	78	26	12 586	36	7.56
INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS											
1977 Census--	10 623	(NA)	80	1 891	5.17	66	75	(NA)	41 894	25	27.61
1976 ASM----	9 336	17 870	81	1 911	4.28	64	75	20	30 362	30	19.40
1975 ASM----	8 671	17 218	82	1 930	3.87	67	77	19	29 098	29	18.31
1974 ASM----	8 295	16 621	83	1 962	3.49	70	80	20	24 373	34	14.86
1973 ASM----	7 372	14 423	80	1 892	3.34	63	75	23	22 903	32	15.01
1972 Census--	7 028	13 706	79	1 951	3.15	63	75	24	20 576	34	13.20
1971 ASM----	6 648	14 373	78	1 969	3.06	64	75	25	20 339	32	13.18
1970 ASM----	6 248	13 679	79	1 993	2.82	63	75	25	19 870	31	12.54
1969 ASM----	5 459	10 813	80	1 928	2.55	61	73	24	17 224	31	11.11
1968 ASM----	5 379	10 503	80	1 904	2.57	62	75	24	16 153	33	10.53
1967 Census--	5 075	9 939	81	1 956	2.27	64	76	24	14 924	34	9.32
1966 ASM----	4 791	(NA)	80	1 982	2.03	66	79	(NA)	12 938	37	8.14
1965 ASM----	4 624	(NA)	80	1 955	1.98	64	75	(NA)	14 228	32	9.01
1964 ASM----	4 689	11 401	79	2 000	2.02	64	76	29	13 641	34	8.56
1963 Census--	4 405	10 621	81	1 941	1.94	62	75	30	13 126	33	8.34

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES										
1977 Census--	9 110	(NA)	88	1 890	4.38	59	72	(NA)	28 289	32	16.83
1976 ASM----	8 503	19 813	87	1 897	4.08	58	70	28	29 501	28	17.79
1975 ASM----	7 745	18 212	88	1 830	3.84	62	75	29	23 509	32	14.58
1974 ASM----	7 386	16 762	88	1 943	3.47	62	76	30	20 979	35	12.26
1973 ASM----	6 662	14 566	86	1 968	3.13	62	77	31	17 192	38	10.05
1972 Census--	6 102	13 546	87	1 981	2.80	62	76	31	16 228	37	9.32
	INDUSTRY 2038, FROZEN SPECIALTIES										
1977 Census--	10 241	(NA)	79	1 952	4.58	64	76	(NA)	29 709	34	19.19
1976 ASM----	9 431	18 407	81	1 948	4.28	65	76	22	28 407	33	17.87
1975 ASM----	8 910	18 385	81	1 934	4.04	67	79	23	25 240	35	16.10
1974 ASM----	8 268	16 242	79	1 928	3.64	68	80	23	21 522	38	13.97
1973 ASM----	7 246	13 796	81	1 875	3.36	68	80	24	18 778	38	12.21
1972 Census--	6 895	13 490	83	1 933	3.09	63	76	26	18 702	36	11.64

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2032, CANNED SPECIALTIES													
United States	-	203	88	26.4	296.5	21.5	42.4	224.3	[3]1 142.6	1 667.7	[3]2 829.2	46.7	29.1	814.6
New England Division:													
Maine	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:													
New York	-	17	7	1.7	18.7	1.3	2.6	13.1	74.4	91.8	166.4	1.3	1.4	79.5
New Jersey	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pennsylvania	-	11	5	3.6	44.6	3.0	5.9	35.0	148.1	188.3	335.1	4.3	(NA)	(D)
East North Central Division:														
Ohio	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Indiana	-	9	7	2.3	21.9	2.0	3.9	17.5	75.2	122.7	198.0	1.6	2.4	57.0
Illinois	-	16	5	2.0	23.7	1.6	3.0	18.1	65.1	123.1	188.3	2.0	(NA)	(D)
Michigan	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Wisconsin	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:														
Iowa	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Kansas	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:														
Delaware	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Maryland	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
North Carolina	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
East South Central Division:														
Tennessee	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:														
Arkansas	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Texas	-	15	10	2.9	28.3	2.3	4.8	20.8	122.3	191.7	313.8	7.3	(NA)	(D)
Mountain Division:														
Idaho	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arizona	-	8	3	0.4	3.3	0.3	0.6	2.4	10.2	12.7	22.9	0.6	(NA)	(D)
Pacific Division:														
California	-	50	22	3.8	47.6	3.1	6.0	36.8	179.4	233.6	413.6	8.3	(NA)	(D)
INDUSTRY 2033, CANNED FRUITS AND VEGETABLES														
United States	-	900	519	82.6	789.8	72.6	135.0	636.6	[3]2 546.1	4 135.3	[3]6 666.5	147.1	89.8	1 625.1
New England Division:														
Maine	E1	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Massachusetts	-	16	7	0.6	7.0	0.5	1.1	5.5	24.9	53.1	77.9	1.0	0.6	12.7
Middle Atlantic Division:														
New York	-	77	40	4.0	41.8	3.2	6.5	27.2	169.6	259.3	428.8	6.5	4.7	83.4
New Jersey	E1	28	11	1.4	15.6	1.0	1.8	10.3	55.3	102.1	157.7	3.8	2.7	51.3
Pennsylvania	-	42	22	4.0	35.2	3.4	6.7	26.9	114.7	220.2	338.3	6.9	4.4	85.3
East North Central Division:														
Ohio	-	43	24	2.7	27.8	2.4	4.6	22.2	161.6	181.9	344.2	8.9	2.9	67.7
Indiana	-	27	16	1.1	8.7	1.0	1.8	7.0	27.6	60.3	87.9	4.2	1.6	24.3
Illinois	E1	30	15	1.6	15.4	1.5	3.0	13.1	41.3	82.7	123.9	4.3	2.4	49.9
Michigan	-	48	31	2.4	22.2	1.9	3.8	15.0	57.4	144.8	202.2	2.5	3.1	54.3
Wisconsin	-	80	68	7.4	63.1	6.7	13.3	52.1	213.4	305.1	518.5	10.3	7.8	138.0
West North Central Division:														
Minnesota	-	24	20	3.1	21.4	2.8	4.8	18.1	129.0	115.2	244.2	5.5	3.7	63.0
Iowa	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Delaware	-	9	6	0.9	5.6	0.8	1.4	5.5	20.7	28.1	48.8	0.4	1.6	17.7
Maryland	E1	37	12	1.1	8.1	0.9	1.8	6.5	18.6	37.4	55.9	1.9	1.4	16.8
Virginia	-	30	9	1.6	11.9	1.4	2.6	7.4	26.8	48.2	77.0	3.3	(NA)	(D)
West Virginia	-	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
North Carolina	-	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Georgia	E1	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	4.7
Florida	-	44	22	4.7	45.9	3.9	7.9	33.4	188.5	310.8	495.8	12.3	5.1	96.7
East South Central Division:														
Kentucky	-	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	-	11	5	0.6	3.7	0.5	0.6	2.3	9.0	17.5	26.5	0.4	0.4	4.5
Alabama	-	9	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:														
Arkansas	-	16	11	1.2	8.1	0.9	1.7	6.0	27.5	37.9	65.0	1.0	1.7	23.3
Louisiana	-	9	6	1.2	6.7	1.1	1.6	5.4	9.2	27.6	36.8	(D)	1.5	14.9
Oklahoma	E1	7	3	0.6	5.0	0.7	1.4	3.3	14.2	12.3	26.5	(D)	1.1	8.5
Texas	-	26	10	1.5	11.8	1.4	2.5	9.3	39.5	70.5	110.0	1.5	1.5	23.4
Mountain Division:														
Idaho	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Colorado	-	4	3	0.4	3.2	0.4	0.6	2.3	3.3	15.2	17.9	(D)	0.4	2.9
Pacific Division:														
Washington	-	26	18	3.0	29.3	2.7	5.2	25.1	95.7	155.6	250.5	4.8	(NA)	(D)
Oregon	-	28	17	3.6	28.4	3.4	4.8	24.2	53.9	81.2	144.6	4.6	3.6	62.1
California	-	143	105	25.9	303.9	23.2	43.0	261.1	801.2	1 489.2	2 276.8	53.3	24.5	521.8
Hawaii	-	12	5	3.4	25.2	3.0	5.1	21.0	87.1	89.8	176.9	1.2	4.8	89.0

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers						All employees[2] (1,000)	Value added by manufacture (million dollars)
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)		
INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS													
United States	-	**184**	**87**	**14.4**	**153.9**	**11.7**	**22.1**	**111.5**	**485.9**	**685.3**	**1 142.4**	**52.5**	**12.4**	**235.7**
New England Division:													
Maine	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:													
New York	-	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
New Jersey	-	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
East North Central Division:													
Illinois	-	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.5
Wisconsin	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:													
North Dakota	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:													
Georgia	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Mountain Division:													
Idaho	-	14	13	3.1	27.6	2.5	4.2	20.1	68.9	79.9	143.1	2.4	(NA)	(D)
Pacific Division:													
Washington	-	10	9	0.7	7.0	0.6	1.2	5.3	24.3	44.2	67.3	3.1	0.6	14.5
Oregon	E1	9	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.6
California	-	83	34	6.6	76.7	5.6	10.9	57.2	252.7	404.8	633.9	37.7	6.0	90.9
INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS													
United States	-	**438**	**168**	**23.5**	**250.2**	**18.9**	**35.7**	**184.9**	**[3]986.5**	**2 003.8**	**[3]2 996.5**	**52.3**	**20.8**	**428.0**
New England Division:													
Massachusetts	E1	9	4	0.3	2.8	0.3	0.6	2.2	16.1	24.7	40.8	0.6	(NA)	(D)
Middle Atlantic Division:													
New York	E1	45	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	51.0
New Jersey	-	21	9	0.8	12.0	0.6	1.2	8.3	53.6	102.3	155.6	2.8	(NA)	(D)
Pennsylvania	-	13	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
East North Central Division:													
Ohio	-	19	5	0.6	5.9	0.4	0.8	3.7	18.5	29.7	50.6	(D)	(NA)	(D)
Indiana	-	10	6	0.8	8.1	0.6	1.1	5.7	15.5	44.4	59.9	1.6	(NA)	(D)
Illinois	-	23	10	3.1	38.4	2.7	4.7	31.1	146.6	601.6	748.3	10.7	1.0	24.7
Michigan	-	41	13	2.1	17.6	1.9	3.2	14.4	66.4	75.2	143.5	1.4	2.2	49.1
Wisconsin	-	21	11	1.4	8.9	0.9	1.7	6.2	36.5	32.6	68.7	1.9	(NA)	(D)
West North Central Division:													
Minnesota	-	7	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Missouri	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Kansas	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:													
Delaware	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Maryland	-	9	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	10.9
North Carolina	-	7	5	0.9	9.0	0.7	1.6	6.4	22.7	29.6	53.5	0.5	0.7	7.7
Georgia	-	11	7	1.6	17.6	1.3	2.6	13.5	74.3	171.3	246.6	5.1	(NA)	(D)
East South Central Division:													
Kentucky	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Tennessee	-	11	4	0.2	2.4	0.1	0.2	0.7	6.1	14.2	20.3	0.4	(NA)	(NA)
Alabama	-	5	4	0.4	3.7	0.3	0.6	1.9	11.5	31.3	42.8	0.5	0.4	8.5
Mississippi	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:													
Arkansas	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Louisiana	-	6	3	0.4	3.3	0.3	0.5	1.7	19.5	17.5	37.0	(D)	(NA)	(D)
Texas	-	19	4	1.1	13.6	0.9	1.8	11.5	63.8	104.6	168.5	(D)	1.1	13.4
Mountain Division:													
Colorado	-	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:													
Washington	-	8	3	0.5	5.2	0.4	0.7	4.0	18.7	43.2	61.9	0.3	(NA)	(D)
Oregon	-	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California	-	59	25	3.3	39.8	2.8	5.6	30.7	190.2	267.0	457.5	11.6	(NA)	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES														
United States	-	**260**	**193**	**46.8**	**425.9**	**41.5**	**78.5**	**344.7**	[3]**1 322.5**	**1 972.0**	[3]**3 297.5**	**87.7**	**42.8**	**694.6**
New England Division:														
Maine	-	10	7	1.7	13.8	1.6	3.0	11.3	20.4	44.5	64.9	(D)	2.3	33.5
Middle Atlantic Division:														
New York	-	15	8	1.2	10.8	1.0	1.9	8.0	41.1	49.1	90.3	1.4	(NA)	(D)
New Jersey	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pennsylvania	-	8	7	0.7	6.6	0.6	1.1	4.9	15.6	36.3	51.9	0.7	(NA)	(D)
East North Central Division:														
Illinois	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Michigan	-	19	16	1.7	15.3	1.5	2.8	10.7	48.4	70.8	118.9	4.2	(NA)	(D)
Wisconsin	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West North Central Division:														
Minnesota	-	5	4	0.9	9.2	0.8	1.8	8.2	8.5	35.6	44.1	(D)	1.2	23.5
North Dakota	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Nebraska	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:														
Maryland	-	3	3	0.2	1.4	0.2	0.3	1.0	3.4	4.5	7.9	(D)	0.3	2.9
Georgia	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Florida	-	33	29	6.7	65.8	5.7	12.3	50.0	373.6	671.3	1 048.3	23.3	(NA)	(D)
East South Central Division:														
Tennessee	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Texas	E1	5	5	0.5	2.7	0.4	1.0	2.2	5.6	11.1	16.7	(D)	(NA)	(D)
Mountain Division:														
Idaho	-	12	11	5.6	61.8	5.8	11.6	50.0	90.7	238.3	329.2	12.0	(NA)	(D)
Pacific Division:														
Washington	-	35	25	5.7	58.4	5.2	9.9	48.2	163.9	202.3	366.9	12.1	5.0	79.4
Oregon	-	28	19	6.3	54.8	5.7	9.3	44.9	146.3	177.3	315.6	7.0	4.9	63.9
California	-	42	35	10.0	87.6	9.1	16.1	75.4	240.1	272.7	518.7	12.3	8.3	109.8
INDUSTRY 2038, FROZEN SPECIALTIES														
United States	-	**394**	**206**	**41.0**	**419.8**	**32.5**	**53.4**	**290.9**	[3]**1 217.7**	**2 187.5**	[3]**3 404.4**	**84.1**	**38.3**	**716.3**
New England Division:														
Massachusetts	E1	14	5	0.3	2.3	0.2	0.4	1.6	6.3	10.4	16.7	0.4	0.2	2.2
Connecticut	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.3
Middle Atlantic Division:														
New York	-	30	15	2.4	25.9	1.7	3.1	15.3	137.6	105.8	243.4	2.0	2.5	60.3
New Jersey	E1	26	11	1.5	17.3	1.2	2.6	11.9	38.7	47.0	85.7	2.2	1.6	22.0
Pennsylvania	-	34	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	69.0
East North Central Division:														
Ohio	-	15	12	3.4	33.7	2.5	4.8	23.1	14.2	173.8	188.1	10.5	1.7	55.8
Indiana	-	7	4	0.5	4.2	0.4	0.7	2.9	14.0	25.0	39.0	(D)	0.4	8.8
Illinois	E1	36	17	3.0	38.6	1.9	3.8	20.6	121.1	144.3	265.4	5.3	4.1	93.0
Michigan	-	15	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	14.0
Wisconsin	E1	16	7	1.5	15.6	1.1	2.1	9.3	37.3	43.5	80.8	(D)	1.2	29.0
West North Central Division:														
Minnesota	-	17	10	2.5	21.1	2.2	4.2	16.4	101.3	114.3	215.0	11.9	1.9	27.5
Iowa	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Missouri	-	13	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Nebraska	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Kansas	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:														
Maryland	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Virginia	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Carolina	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Georgia	-	8	5	0.8	8.4	0.6	1.2	5.3	28.0	33.6	61.6	4.2	0.7	16.2
Florida	E1	10	4	0.3	2.7	0.2	0.5	2.0	5.9	17.4	23.3	1.0	0.4	7.6
East South Central Division:														
Tennessee	-	9	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Alabama	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:														
Arkansas	-	8	6	2.7	29.8	2.4	4.8	20.6	66.9	141.6	208.2	(D)	2.7	44.4
Oklahoma	-	5	4	0.8	6.7	0.7	1.2	5.3	22.7	29.3	52.1	1.0	(NA)	(D)
Texas	E1	22	10	0.8	7.8	0.7	1.4	5.2	14.7	25.1	39.8	2.5	1.1	15.7
Mountain Division:														
Utah	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	E2	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Oregon	-	9	4	0.8	6.5	0.5	0.8	4.3	16.5	22.0	38.5	1.5	(NA)	(D)
California	-	80	22	4.3	47.0	3.3	6.6	32.2	119.5	312.0	431.3	5.4	4.0	79.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Canned specialties (SIC 2032)	Canned fruits and vegetables (SIC 2033)	Dehydrated fruits, vegetables, and soups (SIC 2034)	Pickles, sauces, and salad dressings (SIC 2035)	Frozen fruits and vegetables (SIC 2037)	Frozen specialties (SIC 2038)
Primary product specialization ratio[1]	percent	80	90	94	69	89	93
Coverage ratio[2]	do	89	89	88	86	89	93
All establishments	number	203	900	184	438	260	394
With 1 to 19 employees	do	115	381	97	270	67	186
With 20 to 99 employees	do	36	278	51	109	74	97
With 100 employees or more	do	52	241	36	59	119	111
All employees, average for year	1,000	26.4	82.6	14.4	23.5	46.8	41.0
Payroll for year, all employees	mil. dol.	296.5	789.8	153.9	250.2	425.9	419.8
Production workers:							
Average for year	1,000	21.5	72.6	11.7	18.9	41.5	32.5
March	do	20.8	42.9	10.9	16.2	40.0	32.2
May	do	19.7	47.9	10.3	17.1	41.9	31.6
August	do	24.1	140.9	11.8	25.1	42.2	32.6
November	do	21.4	58.5	13.8	17.2	42.1	33.5
Hours	millions	42.4	135.0	22.1	35.7	78.5	63.4
January to March	do	10.2	20.1	5.0	7.5	17.8	15.7
April to June	do	9.4	23.8	5.0	8.4	20.7	15.5
July to September	do	12.1	61.7	5.7	11.6	20.1	15.7
October to December	do	10.7	29.4	6.4	8.2	20.0	16.5
Wages	mil. dol.	224.3	636.6	111.5	184.9	344.7	290.9
Cost of materials, etc.	do	1 687.7	4 135.3	685.3	2 003.8	1 972.0	2 187.5
Materials, parts, containers, etc., consumed	do	1 552.0	3 896.6	642.7	1 796.5	1 795.3	1 690.0
Resales	do	85.9	109.7	6.1	183.5	73.8	449.5
Fuels consumed	do	34.7	86.0	24.9	12.9	53.7	14.9
Purchased electric energy	do	13.3	38.0	10.8	10.5	41.5	30.9
Contract work	do	1.9	4.9	0.8	0.2	7.7	2.2
Value of shipments, including resales	do	[5]2 829.2	[5]6 666.5	1 142.4	[5]2 996.5	[5]3 297.5	[5]3 404.4
Value of resales	do	106.2	136.8	16.2	196.5	78.6	473.1
Value added by manufacture	do	[5]1 142.6	[5]2 546.1	485.9	[5]986.5	[5]1 322.5	[5]1 217.7
Manufacturers' inventories:							
Beginning of year	do	508.4	2 062.1	267.0	426.7	640.3	288.9
Finished products	do	318.4	1 709.7	116.4	231.1	451.9	132.2
Work in process	do	7.5	73.3	46.9	44.3	62.4	6.1
Materials, supplies, fuel, etc.	do	182.5	279.1	103.6	151.2	126.0	150.6
End of year	do	527.8	2 233.5	281.9	447.8	724.4	322.2
Finished products	do	326.2	1 827.6	134.6	247.0	535.4	151.5
Work in process	do	8.6	88.2	56.7	38.1	59.5	6.9
Materials, supplies, fuel, etc.	do	193.0	317.7	90.6	162.7	129.5	163.8
Capital expenditures for plant and equipment	do	47.3	168.2	54.3	55.8	95.8	89.9
New capital expenditures	do	46.7	147.1	52.5	52.3	87.7	84.1
New buildings and other structures	do	11.2	33.3	15.6	11.7	14.1	18.9
New machinery and equipment	do	35.5	113.8	36.9	40.6	73.6	65.2
Used capital expenditures	do	0.5	21.0	1.8	3.5	8.2	5.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Canned specialties (SIC 2032)		Canned fruits and vegetables (SIC 2033)		Dehydrated fruits, vegetables, and soups (SIC 2034)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	3.5	8	5.7	8	(1.5)	40
Response coverage ratio[2] (percent)	59.6	(X)	69.0	(X)	73.2	(X)
Machinery	11.5	10	(39.7)	73	8.7	5
Response coverage ratio[2] (percent)	62.2	(X)	69.0	(X)	72.9	(X)
Cost of purchased communication services	2.3	13	5.4	(A)	(1.4)	18
Response coverage ratio[2] (percent)	85.6	(X)	64.0	(X)	67.0	(X)
Rental payments	9.2	8	48.6	3	(5.3)	17
Buildings and other structures	(2.1)	16	12.7	5	(2.3)	16
Machinery and equipment	7.1	9	35.9	4	(3.1)	26
Supplemental labor costs	63.1	1	166.1	1	29.9	2
Legal costs	27.9	1	88.4	1	14.8	5
Voluntary costs	35.2	2	77.8	1	15.1	2
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning or year	223.9	2	487.4	2	95.9	5
New capital expenditures	10.8	13	32.6	7	(17.0)	25
Used capital expenditures	-	(X)	4.9	6	.4	1
Retirements	2.0	8	9.0	13	2.3	12
End of year	232.8	2	515.9	2	111.1	5
Machinery and equipment:						
Beginning of year	433.5	1	1,127.5	2	203.4	4
New capital expenditures	34.9	5	118.8	6	34.8	8
Automobiles, trucks, etc., for highway use[3]	(2.7)	(A)	(3.8)	(A)	(0.2)	(A)
Computers and peripheral data processing equipment[3]	(0.1)	(A)	(0.9)	(A)	(Z)	(A)
All other[3]	(29.8)	(A)	(88.6)	(A)	(21.9)	(A)
New machinery and equipment, n.s.k.[4]	(2.2)	(A)	(25.6)	(A)	(12.8)	(A)
Used capital expenditures	0.5	2	16.7	3	(1.6)	76
Retirements	17.5	2	46.9	7	10.8	7
End of year	451.4	1	1,216.1	2	229.0	4
Total gross value of depreciable assets:						
Beginning of year	657.5	1	1,615.0	1	299.3	4
New capital expenditures	45.7	7	151.4	5	51.9	10
Used capital expenditures	0.5	2	21.6	3	(2.0)	59
Retirements	19.5	2	55.9	8	13.0	8
End of year	684.2	1	1,732.0	1	340.2	4
Depreciation charges during 1977	33.0	2	108.6	2	19.9	6
Buildings and other structures	7.4	3	21.6	5	4.0	6
Machinery and equipment	25.6	3	87.0	2	15.9	6

See footnotes at end of table.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977—Con.

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Pickles, sauces, and salad dressings (SIC 2035)		Frozen fruits and vegetables (SIC 2037)		Frozen specialties (SIC 2038)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	2.4	8	(4.4)	18	(5.4)	23
Response coverage ratio[2] (percent)	67.8	(X)	65.1	(X)	76.0	(X)
Machinery	18.0	7	(30.4)	41	15.6	10
Response coverage ratio[2] (percent)	65.1	(X)	64.0	(X)	63.3	(X)
Cost of purchased communication services	2.7	22	(4.5)	55	(5.5)	58
Response coverage ratio[2] (percent)	69.4	(X)	63.7	(X)	59.0	(X)
Rental payments	11.0	10	30.7	9	21.4	13
Buildings and other structures	3.4	11	(9.4)	34	7.7	10
Machinery and equipment	7.5	11	21.4	4	(13.7)	20
Supplemental labor costs	49.7	3	90.7	1	77.3	1
Legal costs	22.8	2	52.4	1	38.2	1
Voluntary costs	26.9	5	38.2	2	39.0	2
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning or year	191.0	3	253.2	3	240.3	3
New capital expenditures	10.8	11	(23.5)	26	18.5	7
Used capital expenditures	2.6	10	2.2	1	1.2	1
Retirements	4.5	5	2.3	11	3.2	8
End of year	199.9	4	276.6	4	256.7	3
Machinery and equipment:						
Beginning of year	314.9	2	591.4	3	500.6	2
New capital expenditures	40.8	6	79.7	10	60.0	6
Automobiles, trucks, etc., for highway use[3]	(1.2)	(A)	(2.7)	(A)	(2.4)	(A)
Computers and peripheral data processing equipment[3]	(0.4)	(A)	(0.6)	(A)	(0.5)	(A)
All other[3]	(34.0)	(A)	(72.3)	(A)	(47.9)	(A)
New machinery and equipment, n.s.k.[4]	(5.1)	(A)	(4.1)	(A)	(9.0)	(A)
Used capital expenditures	(.9)	17	(7.2)	16	4.5	2
Retirements	13.5	4	18.7	6	16.9	4
End of year	343.1	2	659.6	3	548.1	2
Total gross value of depreciable assets:						
Beginning of year	506.0	2	844.6	2	740.8	2
New capital expenditures	51.7	6	103.2	13	78.5	6
Used capital expenditures	3.5	9	9.4	12	5.7	2
Retirements	18.0	4	21.0	6	20.2	5
End of year	543.1	2	936.2	2	804.8	2
Depreciation charges during 1977	27.0	3	59.6	4	52.0	4
Buildings and other structures	7.5	5	10.5	6	10.7	3
Machinery and equipment	19.5	3	49.2	4	41.4	5

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2032, CANNED SPECIALTIES												
Total	-	203	26.4	296.5	21.5	42.4	224.3	[3]1 142.6	1 687.7	[3]2 829.2	46.7	527.8
Establishments with an average of—												
1 to 4 employees	E9	71	0.1	1.2	0.1	0.2	0.9	4.0	5.6	9.6	0.2	1.6
5 to 9 employees	E7	24	0.2	1.5	0.1	0.2	1.1	5.0	7.0	12.0	0.2	1.9
10 to 19 employees	E2	20	0.3	2.7	0.2	0.4	1.8	8.0	11.8	19.8	0.4	2.7
20 to 49 employees	E2	22	0.6	6.5	0.5	1.0	4.4	24.6	32.6	57.2	1.3	12.2
50 to 99 employees	-	14	1.0	7.5	0.7	1.4	5.5	27.4	38.2	65.6	1.8	9.8
100 to 249 employees	-	24	4.0	41.0	3.2	6.4	29.1	125.9	247.5	373.0	8.2	76.8
250 to 499 employees	-	16	5.7	61.0	4.6	9.0	45.7	317.6	468.9	784.9	(15.6)	156.5
500 to 999 employees	-	5	3.6	36.3	3.1	6.4	28.9	113.7	147.4	261.3	(D)	45.9
1,000 to 2,499 employees	-	7	10.8	138.7	8.9	17.4	106.9	516.5	730.6	1 245.8	19.1	220.3
Covered by administrative records[2]	E0	87	0.3	3.2	0.3	0.5	2.3	10.2	14.6	24.8	0.3	4.2
INDUSTRY 2033, CANNED FRUITS AND VEGETABLES												
Total	-	900	82.6	789.8	72.6	135.0	636.6	[3]2 546.1	4 135.3	[3]6 666.5	147.1	2 233.5
Establishments with an average of—												
1 to 4 employees	E7	200	0.3	3.0	0.3	0.5	2.3	8.7	14.0	22.8	0.7	7.6
5 to 9 employees	E7	78	0.5	5.1	0.5	0.9	4.0	15.4	23.9	39.1	1.3	13.5
10 to 19 employees	E6	103	1.4	13.5	1.2	2.2	9.8	38.6	67.8	106.3	2.9	32.2
20 to 49 employees	E1	142	4.8	43.8	4.1	7.5	31.7	118.8	247.7	364.7	10.8	91.7
50 to 99 employees	-	136	10.1	87.1	8.7	16.5	65.7	245.9	515.1	760.5	23.2	235.7
100 to 249 employees	-	145	22.2	203.1	19.0	36.6	157.8	665.2	1 153.6	1 818.8	41.7	626.2
250 to 499 employees	-	75	26.8	270.0	24.4	44.4	229.8	884.8	1 360.9	2 245.9	(66.5)	827.0
500 to 999 employees	-	18	11.0	110.1	9.8	18.3	94.4	359.5	511.5	861.8	(D)	308.8
1,000 to 2,499 employees	-	3	5.4	54.2	4.6	8.1	41.1	209.2	240.8	446.6	(D)	90.8
Covered by administrative records[2]	E0	274	1.6	14.0	1.4	2.5	11.2	41.2	67.6	108.7	2.6	36.1
INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS												
Total	-	184	14.4	153.9	11.7	22.1	111.5	485.9	685.3	1 142.4	52.5	281.9
Establishments with an average of—												
1 to 4 employees	E7	44	0.1	0.8	0.1	0.1	0.6	0.9	3.1	5.1	0.2	1.3
5 to 9 employees	E5	17	0.1	1.2	0.1	0.2	0.9	4.2	6.7	10.6	0.4	2.6
10 to 19 employees	E6	36	0.5	4.9	0.4	0.8	3.7	12.2	20.6	32.6	1.4	9.8
20 to 49 employees	-	29	1.0	9.6	0.8	1.5	6.5	29.8	78.8	109.5	2.6	21.6
50 to 99 employees	-	22	1.7	16.3	1.4	2.8	12.2	52.2	62.7	116.4	5.5	25.8
100 to 249 employees	-	19	3.0	33.6	2.4	4.6	22.6	97.6	153.7	249.2	4.9	54.7
250 to 499 employees	-	11	4.2	42.6	3.4	5.9	31.3	123.2	156.5	273.0	21.9	59.2
500 to 999 employees	-	6	3.9	44.9	3.0	6.2	33.7	165.9	203.3	346.0	15.7	107.0
Covered by administrative records[2]	E0	55	0.3	3.2	0.3	0.5	2.3	10.1	16.3	26.5	1.3	7.1
INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS												
Total	-	438	23.5	250.2	16.9	35.7	184.9	[3]986.5	2 003.8	[3]2 996.5	52.3	447.8
Establishments with an average of—												
1 to 4 employees	E9	141	0.2	2.0	0.2	0.3	1.5	5.8	11.2	17.1	0.4	2.8
5 to 9 employees	E6	61	0.4	4.3	0.3	0.7	2.9	13.4	24.9	38.3	0.9	5.1
10 to 19 employees	E2	68	0.9	9.6	0.7	1.3	6.0	37.5	55.9	93.2	1.7	13.2
20 to 49 employees	E1	68	2.2	23.1	1.7	3.1	14.4	75.6	122.9	199.1	4.3	27.4
50 to 99 employees	-	41	2.9	30.8	2.2	4.1	18.6	129.5	208.7	339.3	9.3	36.7
100 to 249 employees	-	33	5.5	53.4	4.4	8.8	38.9	209.6	273.4	484.1	12.2	81.0
250 to 499 employees	-	21	(11.4)	(127.1)	(9.4)	(17.4)	(104.6)	(515.2)	(1 306.7)	(1 825.6)	(23.6)	(281.7)
500 to 999 employees	-	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	192	0.7	7.1	0.6	1.1	5.3	20.9	37.9	58.9	1.4	9.7
INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES												
Total	-	260	46.8	425.9	41.5	78.5	344.7	[3]1 322.5	1 972.0	[3]3 297.5	87.7	724.4
Establishments with an average of—												
1 to 4 employees	E3	26	(Z)	0.3	(Z)	0.1	0.2	1.5	1.4	3.0	0.1	0.5
5 to 9 employees	E7	17	0.1	1.2	0.1	0.2	0.9	3.6	5.6	9.1	0.2	1.7
10 to 19 employees	E1	22	0.3	2.9	0.2	0.4	2.1	14.6	16.9	31.5	0.6	6.4
20 to 49 employees	-	41	1.4	13.5	1.1	2.2	9.3	47.8	85.2	132.6	3.1	22.7
50 to 99 employees	-	33	2.1	19.7	1.8	3.5	15.0	60.2	112.7	172.2	3.3	44.4
100 to 249 employees	-	59	9.2	85.8	8.0	16.1	67.8	243.3	455.0	702.3	17.2	161.0
250 to 499 employees	-	37	14.0	126.6	12.8	23.4	105.9	462.2	613.9	1 075.0	30.0	226.5
500 to 999 employees	-	17	12.2	105.8	11.0	19.9	89.0	316.2	410.5	727.4	16.8	174.1
1,000 to 2,499 employees	-	6	7.3	70.3	6.3	12.7	54.5	173.2	270.8	444.3	16.3	87.2
Covered by administrative records[2]	E0	33	0.2	2.1	0.2	0.4	1.7	6.4	8.7	15.1	0.4	3.3
INDUSTRY 2038, FROZEN SPECIALTIES												
Total	-	394	41.0	419.8	32.5	63.4	290.9	[3]1 217.7	2 187.5	[3]3 404.4	84.1	322.2
Establishments with an average of—												
1 to 4 employees	E8	90	0.1	1.2	0.1	0.2	0.9	3.3	6.1	9.4	0.2	0.8
5 to 9 employees	E9	52	0.4	3.3	0.3	0.6	2.4	7.9	14.7	22.6	0.7	2.1
10 to 19 employees	E5	44	0.6	5.5	0.5	0.9	3.9	14.0	23.7	37.7	1.1	3.4
20 to 49 employees	E1	50	1.6	15.4	1.3	2.5	10.4	42.1	66.7	109.8	3.9	9.7
50 to 99 employees	E1	47	3.2	29.7	2.6	5.1	19.0	79.0	120.8	199.8	9.3	19.3
100 to 249 employees	-	69	10.5	104.2	8.3	15.9	69.6	292.7	447.3	739.4	20.3	72.4
250 to 499 employees	-	24	8.8	91.5	7.2	13.9	67.2	308.2	456.9	764.8	17.5	63.8
500 to 999 employees	-	13	9.4	101.9	7.4	14.8	71.0	353.7	751.5	1 105.4	15.3	93.9
1,000 to 2,499 employees	-	5	6.4	67.2	4.8	9.6	46.4	116.8	229.9	416.5	15.7	56.6
Covered by administrative records[2]	E0	140	0.8	7.1	0.6	1.2	5.2	17.7	33.1	50.8	1.3	4.6

- Represents zero (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2032	**Canned specialties:**										
	Entire industry	203	26.4	298.5	21.5	42.4	224.3	[1] 1 142.6	1 687.7	[1] 2 829.2	46.7
	Establishments with 75 percent specialization or more	170	16.6	187.6	13.4	26.2	140.7	753.3	1 076.2	1 828.0	29.1
20321	Canned baby foods, except cereal and biscuits:										
	Establishments with this product class primary	9	4.3	51.8	3.4	6.6	39.7	[1] 260.4	290.1	[1] 549.3	8.4
	Establishments with 75 percent specialization or more in class	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20322	Canned soups, except frozen or seafood:										
	Establishments with this product class primary	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20323	Canned dry beans:										
	Establishments with this product class primary	33	6.7	62.4	5.6	11.0	46.2	[1] 186.6	398.5	[1] 585.5	9.6
	Establishments with 75 percent specialization or more in class	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20324	Canned specialties and nationality foods:										
	Establishments with this product class primary	32	5.8	64.6	4.8	9.8	50.4	[1] 254.8	325.2	[1] 579.6	9.2
	Establishments with 75 percent specialization or more in class	21	1.6	14.8	1.3	2.5	10.9	70.0	92.7	162.5	2.0
2033	**Canned fruits and vegetables:**										
	Entire industry	900	82.6	789.8	72.6	135.0	636.6	[1] 2 546.1	4 135.3	[1] 6 666.5	147.1
	Establishments with 75 percent specialization or more	812	71.4	685.9	62.9	116.8	558.9	2 135.1	3 547.0	5 666.7	126.7
20331	Canned fruits, except baby foods:										
	Establishments with this product class primary	96	21.6	216.4	19.4	34.9	183.9	[1] 520.4	944.0	[1] 1 464.7	25.2
	Establishments with 75 percent specialization or more in class	59	11.5	108.2	10.6	18.5	96.1	270.6	471.9	743.1	13.6
20332	Canned vegetables, except hominy and mushrooms:										
	Establishments with this product class primary	227	28.9	220.4	25.9	47.1	181.5	[1] 656.4	948.4	[1] 1 604.2	34.0
	Establishments with 75 percent specialization or more in class	179	19.6	148.4	17.9	32.6	123.7	406.6	650.4	1 057.0	22.3
20333	Canned hominy and mushrooms:										
	Establishments with this product class primary	17	1.8	14.2	1.6	3.1	10.8	[1] 35.7	116.7	[1] 152.7	2.6
	Establishments with 75 percent specialization or more in class	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20334	Canned fruit juices, nectars, and concentrates:										
	Establishments with this product class primary	71	5.9	97.6	7.0	14.6	68.1	[1] 418.8	701.8	[1] 1 118.2	23.8
	Establishments with 75 percent specialization or more in class	46	5.5	62.4	4.3	9.1	41.9	257.6	426.1	678.4	14.4
20335	Canned vegetable juices (including mixtures):										
	Establishments with this product class primary	9	1.0	10.4	0.9	1.7	8.8	[1] 24.9	49.9	[1] 74.6	1.9
	Establishments with 75 percent specialization or more in class	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20336	Catsup and other tomato sauces, pastes, etc.:										
	Establishments with this product class primary	67	13.0	156.1	11.6	22.4	129.0	[1] 620.3	904.1	[1] 1 512.8	41.9
	Establishments with 75 percent specialization or more in class	28	4.0	48.5	3.5	6.9	39.3	284.0	363.1	643.5	13.4
20338	Jams, jellies, and preserves:										
	Establishments with this product class primary	32	3.1	35.7	2.3	4.5	24.5	[1] 152.2	275.7	[1] 427.6	5.8
	Establishments with 75 percent specialization or more in class	19	1.4	16.3	1.0	1.9	11.0	59.2	103.1	162.2	3.1
2034	**Dehydrated fruits, vegetables, and soups:**										
	Entire industry	184	14.4	153.9	11.7	22.1	111.5	485.9	685.3	1 142.4	52.5
	Establishments with 75 percent specialization or more	170	12.9	135.0	10.6	19.9	99.3	433.5	626.1	1 028.5	45.3
20341	Dried and dehydrated fruits and vegetables:										
	Establishments with this product class primary	74	11.0	117.2	9.0	17.1	85.9	357.6	555.9	884.7	46.2
	Establishments with 75 percent specialization or more in class	70	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20342	Soup mixes, dried (dehydrated or freeze dried):										
	Establishments with this product class primary	15	1.7	22.2	1.3	2.6	14.8	93.6	77.9	170.9	2.6
	Establishments with 75 percent specialization or more in class	11	1.3	15.3	1.1	2.0	11.7	69.7	58.7	127.7	(D)
2035	**Pickles, sauces, and salad dressings:**										
	Entire industry	438	23.5	250.2	18.9	35.7	184.9	[1] 986.5	2 003.8	[1] 2 996.5	52.3
	Establishments with 75 percent specialization or more	386	14.2	131.8	11.5	21.2	91.5	454.7	634.5	1 094.1	23.9
20352	Pickles and other pickled products:										
	Establishments with this product class primary	94	10.5	89.8	8.7	16.1	66.0	[1] 263.5	332.3	[1] 602.2	13.1
	Establishments with 75 percent specialization or more in class	84	8.5	70.0	7.1	12.9	52.3	203.0	247.2	455.7	10.4
20353	Meat sauces, except tomato:										
	Establishments with this product class primary	26	1.8	21.9	1.2	2.8	13.9	[1] 122.4	108.8	[1] 231.1	7.6
	Establishments with 75 percent specialization or more in class	13	0.6	7.1	0.4	0.7	4.0	35.4	24.1	59.3	2.6
20354	Mayonnaise, salad dressings, and sandwich spreads:										
	Establishments with this product class primary	76	9.6	123.7	7.7	14.5	94.5	[1] 554.8	1 482.8	[1] 2 037.7	27.8
	Establishments with 75 percent specialization or more in class	46	2.4	28.2	1.8	3.5	17.1	125.6	228.3	354.0	5.8
2037	**Frozen fruits and vegetables:**										
	Entire industry	280	45.8	425.9	41.5	78.5	344.7	[1] 1 322.5	1 972.0	[1] 3 297.5	87.7
	Establishments with 75 percent specialization or more	227	38.6	340.7	34.6	64.5	281.9	900.3	1 464.3	2 360.4	65.5
20371	Frozen fruits, juices, and ades:										
	Establishments with this product class primary	76	10.2	103.6	8.5	17.6	76.3	[1] 487.8	911.6	[1] 1 409.0	30.2
	Establishments with 75 percent specialization or more in class	60	5.0	50.2	4.3	8.7	37.7	265.2	526.8	794.8	16.0
20372	Frozen vegetables:										
	Establishments with this product class primary	110	35.1	310.1	31.8	58.6	259.1	[1] 793.0	1 007.2	[1] 1 793.5	55.3
	Establishments with 75 percent specialization or more in class	99	31.7	277.4	28.8	52.8	231.1	651.7	905.2	1 556.2	(D)
2038	**Frozen specialties:**										
	Entire industry	364	41.0	419.8	32.5	53.4	290.9	[1] 1 217.7	2 187.5	[1] 3 404.4	84.1
	Establishments with 75 percent specialization or more	356	34.1	348.7	27.4	53.3	242.1	1 090.3	1 916.0	3 005.7	69.9
20381	Frozen pies and other frozen baked goods:										
	Establishments with this product class primary	56	9.5	109.1	6.7	13.0	55.0	[1] 358.3	352.2	[1] 710.1	14.8
	Establishments with 75 percent specialization or more in class	42	8.2	96.8	5.7	11.0	58.6	323.7	312.4	635.7	11.2
20382	Frozen dinners, pot pies, and nationality foods:										
	Establishments with this product class primary	89	20.7	203.5	17.4	35.3	155.4	[1] 525.5	1 280.4	[1] 1 805.8	46.5
	Establishments with 75 percent specialization or more in class	67	11.4	111.7	9.7	19.9	85.4	358.6	839.2	1 198.2	26.6
20383	Other frozen specialties:										
	Establishments with this product class primary	58	8.7	87.9	6.6	11.9	58.0	[1] 286.2	470.2	[1] 756.0	16.3
	Establishments with 75 percent specialization or more in class	46	5.8	55.1	4.5	8.0	35.7	178.1	268.6	446.7	11.1

- Represents zero (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.
[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b Industry-Product Analysis — Value of Production for an Industry and Primary Product Production, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on the production values of products representing largest amount considered primary to an industry. Frequently, establishment production comprises mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are produced by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of production					Value of primary product production			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
2032	Canned specialties.....1977..	2,829.2	2,173.7	548.8	106.7	80	2,429.0	2,173.7	255.3	89
	1972..	1,876.6	1,475.2	354.4	47.0	81	1,629.9	1,475.2	154.7	91
	1967..	1,361.9	1,078.1	233.8	50.0	82	1,190.7	1,078.1	112.6	91
2033	Canned fruits and vegetables.....1977..	6,666.5	5,886.3	623.3	156.9	90	6,621.4	5,886.3	735.1	89
	1972..	4,043.8	3,495.7	424.1	124.0	89	3,922.9	3,495.7	427.2	94
	1967..	3,467.8	2,987.4	346.3	134.1	90	3,222.3	2,987.4	234.9	93
2034	Dehydrated fruits, vegetables, and soups.....1977..	[1]1,142.4	[1]1,056.8	[1]65.0	[1]20.6	94	[1]1,200.2	[1]1,056.8	[1]143.4	88
	1972..	[1]607.3	[1]553.9	[1]31.0	[1]22.4	95	[1]625.6	[1]553.9	[1]71.7	88
	1967..	[1]420.8	[1]389.3	[1]25.3	[1]6.2	94	[1]450.9	[1]389.3	[1]61.6	86
2035	Pickles, sauces, and salad dressings.....1977..	2,996.5	1,921.7	875.2	199.6	69	2,242.8	1,921.7	321.1	86
	1972..	1,166.7	906.9	227.0	32.8	80	1,165.1	906.9	258.2	78
	1967..	818.9	634.2	153.6	31.1	81	792.9	634.2	158.7	80
2037	Frozen fruits and vegetables.....1977..	3,297.5	2,723.7	342.5	231.3	89	3,047.2	2,723.7	323.5	89
	[2]1972..	1,848.8	1,502.2	245.4	101.2	86	1,648.7	1,502.2	143.1	91
	[3]1967..	2,066.6	1,817.6	162.6	86.4	92	2,020.7	1,817.6	203.1	90
2038	Frozen specialties.....1977..	3,404.4	2,719.7	201.7	483.1	93	2,911.9	2,719.7	192.2	93
	[2]1972..	1,935.5	1,602.8	103.3	229.4	94	1,742.6	1,602.8	139.8	92
	[4]1967..	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)

(X) Not applicable.
[1]For industry 2034, figures relate to value of shipments rather than value of production.
[2]New SIC basis.
[3]Old SIC basis.
[4]In 1967, statistics for industry 2038 were included in Industry 2037, Frozen Fruits and Vegetables.

Table 5c. Industry-Product Analysis — Production by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in production from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such production is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Canned specialties (SIC 2032)	Canned fruits and vegetables (SIC 2033)	Dehydrated fruits, vegetables, and soups (SIC 2034)[1]	Pickles, sauces, and salad dressings (SIC 2035)	Frozen fruits and vegetables (SIC 2037)	Frozen specialties (SIC 2038)	Other industries
	Total	(X)	2,829.2	6,666.5	1,142.4	2,996.5	3,297.5	3,404.4	(X)
	Primary products	(X)	2,173.7	5,886.3	1,056.8	1,921.7	2,723.7	2,719.7	(X)
	Secondary products	(X)	548.8	623.3	65.0	875.2	342.5	201.7	(X)
	Miscellaneous receipts	(X)	106.7	156.9	20.6	199.6	231.3	483.1	(X)
2032-	Canned specialties	2,429.0	2,173.7	137.7	(D)	42.3	-	(D)	63.1
20321	Canned baby foods, except cereal and biscuits	401.3	(D)	(D)	-	-	-	-	(D)
20323	Canned dry beans	556.5	501.3	46.0	-	-	-	(D)	(D)
20322 20324 20320	Soups, canned specialty foods, and canned nationality foods, n.s.k.	1,471.2	(D)	(D)	(D)	42.3	(D)	(D)	38.7
2033-	Canned fruits and vegetables	6,621.4	275.4	5,886.3	(D)	66.2	158.2	(D)	223.3
20331	Canned fruits, except baby foods	1,289.3	24.4	1,239.6	-	(D)	10.8	-	(D)
20332	Canned vegetables, except hominy and mushrooms	1,650.9	73.0	1,543.9	(D)	(D)	22.2	-	8.5
20333	Canned hominy and mushrooms	149.8	(D)	138.3	-	-	(D)	-	-
20334	Canned fruit juices, nectars, and concentrates	1,223.4	(D)	947.6	(D)	(D)	113.8	(D)	152.2
20335	Canned vegetable juices (including mixtures)	251.8	(D)	127.4	-	(D)	(D)	-	(D)
20336	Catsup and other tomato sauces, pastes, etc	1,350.0	45.9	1,254.0	-	33.2	(D)	(D)	(D)
20338	Jams, jellies, and preserves	396.9	(D)	328.4	-	17.1	(D)	-	38.1
20330	Canned fruits and vegetables, n.s.k.	309.2	-	307.1	-	-	-	-	2.1
2034-	Dehydrated fruits, vegetables, and soups[1]	1,200.2	-	(D)	1,056.8	22.3	(D)	(D)	78.7
20341	Dried and dehydrated fruits and vegetables[1]	898.6	-	(D)	828.7	(D)	(D)	(D)	(D)
20342	Soup mixes, dried (dehydrated or freeze dried)[1]	224.7	-	(D)	(D)	(D)	-	-	55.0
20340	Dehydrated fruits, vegetables, and soups, n.s.k.[1]	76.9	-	-	(D)	-	-	-	(D)
2035-	Pickles, sauces, and salad dressings	2,242.8	(D)	59.2	(D)	1,921.7	-	(D)	206.7
20352	Pickles and other pickled products	553.2	(D)	(D)	-	535.3	-	-	6.9
20353	Meat sauces, except tomato	261.6	(D)	(D)	-	171.3	-	-	37.1
20354	Mayonnaise, salad dressings, and sandwich spreads	1,292.3	-	29.2	(D)	1,084.5	-	(D)	162.7
20350	Pickles, sauces, and salad dressing, n.s.k.	135.7	(D)	(D)	-	130.6	-	-	-
2037-	Frozen fruits and vegetables	3,047.2	(D)	203.9	(D)	(D)	2,723.7	59.8	53.9
20371	Frozen fruits, juices, and ades	1,153.5	-	111.5	-	(D)	1,023.0	(D)	(D)
20372	Frozen vegetables	1,797.9	(D)	(D)	(D)	-	1,606.2	(D)	41.0
20370	Frozen fruits and vegetables, n.s.k.	95.8	-	(D)	-	-	94.5	-	(D)
2038-	Frozen specialties	2,911.9	(D)	(D)	(D)	-	(D)	2,719.7	84.4
20381	Frozen pies and other frozen baked goods	770.3	-	-	-	-	-	735.1	35.2
20382	Frozen dinners, pot pies, and nationality foods	1,297.7	(D)	(D)	(D)	-	(D)	1,224.0	30.0
20383	Other frozen specialties	718.2	(D)	-	(D)	-	(D)	645.6	(D)
20380	Frozen specialties, n.s.k.	125.7	-	-	-	-	(D)	115.1	(D)
	Other shipments by 4-digit product group:								
2011-	Meat packing plant products	(X)	(D)	-	-	-	-	-	(X)
2013-	Sausages and other prepared meats	(X)	(D)	(D)	-	(D)	-	(D)	(X)
2016-	Dressed poultry and small game	(X)	-	-	-	-	-	(D)	(X)
2017-	Processed poultry and eggs	(X)	-	(D)	-	-	-	(D)	(X)
2022-	Cheese, natural and processed	(X)	-	-	-	(D)	-	(D)	(X)
2026-	Fluid milk	(X)	(D)	(D)	-	(D)	-	-	(X)
2043-	Cereal breakfast foods	(X)	(D)	(D)	(D)	-	-	-	(X)
2046-	Wet corn milling products	(X)	(D)	-	(D)	(D)	-	-	(X)
2047-	Dog, cat, and other pet food	(X)	-	(D)	-	(D)	(D)	-	(X)
2048-	Prepared feeds, n.e.c.	(X)	-	19.3	-	-	(D)	-	(X)
2051-	Bread, cake, and related products	(X)	(D)	(D)	-	(D)	-	(D)	(X)
2052-	Cookies and crackers	(X)	(D)	-	(D)	-	-	(D)	(X)
2065-	Confectionery products	(X)	(D)	(D)	(D)	(D)	-	-	(X)
2075-	Soybean oil mill products	(X)	(D)	-	-	(D)	-	-	(X)
2076-	Vegetable oil mill products, n.e.c.	(X)	-	(D)	-	(D)	-	-	(X)
2079-	Shortening and cooking oils	(X)	-	-	-	(D)	-	-	(X)
2084-	Wines, brandy, and brandy spirits	(X)	-	(D)	-	(D)	-	-	(X)
2086-	Bottled and canned soft drinks	(X)	(D)	(D)	-	-	38.6	(D)	(X)
2087-	Flavoring extracts and sirups, n.e.c.	(X)	(D)	(D)	(D)	(D)	(D)	(D)	(X)

See footnotes at end of table.

Table 5c. Industry-Product Analysis — Production by Product Class and Industry: 1977 — Con.

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in production from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such production is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Canned specialties (SIC 2032)	Canned fruits and vegetables (SIC 2033)	Dehydrated fruits, vegetables, and soups (SIC 2034)	Pickles, sauces, and salad dressings (SIC 2035)	Frozen fruits and vegetables (SIC 2037)	Frozen specialties (SIC 2038)	Other industries
	Other shipments by 4-digit product group--Con.								
2091-	Canned and cured seafoods	(X)	(D)	-	-	1.4	-	-	(X)
2092-	Fresh or frozen packaged fish	(X)	(D)	-	-	-	.7	(D)	(X)
2095-	Roasted coffee	(X)	-	(D)	(D)	(D)	-	-	(X)
2098-	Macaroni and spaghetti	(X)	(D)	-	(D)	(D)	-	(D)	(X)
2099-	Food preparations, n.e.c	(X)	(D)	(D)	(D)	(D)	(D)	7.4	(X)
2841-	Soap and other detergents	(X)	-	-	-	(D)	-	-	(X)
2875-	Fertilizers, mixing only	(X)	-	-	-	-	(D)	-	(X)
2899-	Chemical preparations, n.e.c	(X)	-	-	-	-	12.4	-	(X)
	Miscellaneous receipts:								
93000 00	Contract work	(X)	(D)	10.9	1.7	.3	(D)	6.9	(X)
95120 00	Shell egg sales	(X)	-	(D)	-	-	-	-	(X)
99980 98	Other miscellaneous receipts	(X)	(D)	(D)	2.6	2.7	(D)	3.1	(X)
99989 00	Resales	(X)	106.2	136.8	16.2	196.5	78.6	473.1	(X)

1977 product code	Industry and miscellaneous receipts	Other industries	1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million production of primary products:			Other industries with over $5 million production of primary products--Con.	
2032-	2013 Sausages and other prepared meats	19.6	2035-	2079 Shortening and cooking oils	79.1
	2023 Condensed and evaporated milk	(D)		2086 Bottled and canned soft drinks	(D)
	2043 Cereal breakfast foods	(D)		2095 Roasted coffee	(D)
	2099 Food preparations, n.e.c	(D)		2099 Food preparations, n.e.c	99.2
2033-	2013 Sausages and other prepared meats	6.5	2037-	2013 Sausages and other prepared meats	(D)
	2026 Fluid milk	(D)		2086 Bottled and canned soft drinks	(D)
	2065 Confectionary products	(D)		2092 Fresh or frozen packaged fish	(D)
	2079 Shortening and cooking oils	6.0		2099 Food preparations, n.e.c	9.3
	2086 Bottled and canned soft drinks	(D)			
	2099 Food preparations, n.e.c	18.8	2038-	2011 Meatpacking plants	8.9
				2013 Sausages and other prepared meats	(D)
2034-	2043 Cereal breakfast foods	(D)		2051 Bread, cake, and related products	(D)
	2066 Chocolate and cocoa products	(D)		2092 Fresh or frozen packaged fish	(D)
	2099 Food preparations, n.e.c	30.8		2099 Food preparations, n.e.c	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Figures represent value of shipments rather than value of production.

Table 6a. Products and Product Classes — Quantity and Value of Production by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with production of $100,000 or more	Production[1]		Production	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	CANNED SPECIALTIES						
2032- --	Total	.....	(NA)	(X)	2,429.0	(X)	1,629.9
20321 --	Canned baby foods, except cereal and biscuits	.....	(NA)	(X)	401.3	(X)	346.7
20321 11	Fruits	Million lb. net wt.	4	214.8	96.2	215.3	72.4
20321 21	Meats	↑	5	(D)	(D)	61.1	45.6
20321 31	Vegetables	↑	3	113.7	50.7	126.2	41.5
20321 51	Desserts, excluding 100 percent fruit products	Million lb net wt.	3	(D)	(D)	199.4	64.6
20321 71	Juices	Million cases of 24.	5	13.1	65.2	9.8	28.4
20321 98	Other canned baby foods, except cereal, and biscuits, but including vegetable and vegetable meat soups, etc.	Million lb net wt.	2	(D)	(D)	248.4	94.1
20321 00	Canned baby foods, n.s.k.	.....	(NA)	(X)	.1	(X)	.1
20323 --	Canned dry beans	Million cases.	(NA)	(X)	556.5	67.3	305.8
	Beans with pork, including baked:						
20323 71	7.1 oz to 10 oz (8 oz short 9 oz tall, etc.)	Million cases of 48.	7	1.9	17.3	3.1	15.6
20323 72	10.1 oz to 13 oz (no. 1 picnic, etc.)	Million cases of 48.	4	.2	1.2		
20323 73	13.1 oz to 18 oz (no. 300, no. 303, etc.)	Million cases of 24.	24	18.9	115.6	13.0	48.1
20323 74	18.1 oz to 22 oz (no. 2, etc.)	↑	8	4.6	36.7	4.9	24.0
20323 75	22.1 oz to 27 oz (jumbo, etc.)	↑	0				
20323 76	27.1 oz to 40 oz (no. 2-1/2 quart glass, etc.)	Million cases of 24.	16	5.9	63.6	6.6	40.3
20323 79	Other sizes	Million cases.	18	10.7	92.4	6.9	37.6
	Beans with sauce, vegetarian style, including baked:						
20323 82	13.1 oz to 18 oz (no. 300, no. 303, etc.)	Million cases of 24.	9	4.6	31.3	4.8	20.4
20323 84	Other sizes	Million cases.	13	2.1	18.3	1.5	7.4
	Beans, all other dry varieties, including chili con carne:						
20323 86	13.1 oz to 18 oz (no. 300, no. 303, etc.)	Million cases of 24.	29	14.5	90.1	13.9	53.7
20323 91	Other sizes	Million cases.	26	9.0	69.2	9.9	49.7
20323 00	Canned dry beans, n.s.k.	↑	(NA)	(X)	20.7	2.7	9.0
20322 --	Canned soups, except frozen; canned specialty foods; and	↑					
20324 --	canned nationality foods, n.s.k.	↑	(NA)	(X)	1,471.3	(NA)	977.4
20320 --		↑					
20322 71	Canned soups, except frozen or seafood	↑	19	(D)	(D)		
20324 61	Spaghetti with meat	↑	6	(D)	(D)		
20324 62	Spaghetti without meat	↑	8	(D)	(D)		
20324 68	Chinese foods (bean sprouts, chop suey, etc.)	Million cases.	3	(D)	(D)		
20324 91	Mincemeat	Million lb.	6	(D)	(D)		
20324 93	Spanish foods (mexican rice, tortillas, enchiladas)	Million cases.	16	7.1	42.0		
20324 94	Ravioli	↑	5	(D)	(D)		
20324 95	Macaroni, with or without meat	↑	5	5.7	43.0		
20324 98	Other canned specialties, including canned puddings (other than canned meats)	Million cases.	36	31.0	237.9	(NA)	977.4
20324 00	Canned nationality foods, n.s.k.	.....	(NA)	(X)	7.4		
20320 00	Canned specialties, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	42.3		
20320 02	Canned specialties, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	24.8		

See footnotes at end of table.

Table 6a. Products and Product Classes—Quantity and Value of Production by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with production of $100,000 or more	Production (pack)		Production (pack)	
				Quantity[2]	Value[1] (million dollars)	Quantity	Value (million dollars)
	CANNED FRUITS AND VEGETABLES						
2033- --	Total	.....	(NA)	(X)	6,621.4	(X)	3,922.9
20331 --	Canned fruits, except baby foods	1,000 cases..	(NA)	(X)	1,289.3	(NA)	828.6
20331 12	Apples		15	3,260	32.1	4,477	33.0
20331 15	Apricots		10	3,970	35.0	3,981	24.1
20331 18	Berries, except cranberries		8	547	12.2	919	9.3
20331 22	Cherries, red pitted		17	1,211	17.4	2,336	15.1
20331 24	Cherries, sweet		11	*943	11.5	1,101	8.8
20331 28	Cranberries and cranberry sauce		7	*7,868	52.3	8,120	40.0
20331 31	Grapefruit segments		6	(S)	16.0	2,475	14.2
20331 34	Fruits for salads, including mixed fruits other than fruit cocktail		13	3,157	28.5	3,784	27.9
20331 54	Plums (purple and other types), excluding dried prunes		12	653	6.4	430	2.3
20331 57	Pineapple, all styles		3	16,944	143.2	17,294	95.0
20331 71	Applesauce		27	23,431	156.1	25,351	93.7
20331 72	Fruit cocktail		11	19,834	169.8	16,953	103.9
20331 73	Olives, ripe and green ripe, including stuffed (net drained weight)		17	*9,820	96.2	(NA)	55.1
20331 74	Peaches, including spiced		18	35,892	290.8	29,088	165.0
20331 75	Pears, including spiced		16	14,029	111.3	12,092	79.2
	Canned fruit pie mixes:						
20331 61	Apple		7	1,478	12.8	1,528	6.7
20331 63	Cherry		9	2,470	30.5	3,993	18.3
20331 65	Peach		7	1,488	11.4	302	1.9
20331 69	Other fruit pie mixes		9	2,547	27.9	3,353	18.0
20331 98	Other canned fruit		12	1,206	11.1	2,377	12.1
20331 00	Canned fruit, except baby foods, n.s.k		(NA)	(X)	16.8	911	5.0
20332 --	Canned vegetables, except hominy and mushrooms		(NA)	(X)	1,650.9	255,300	1,067.1
20332 03	Beans, fresh lima	1,000 cases..	15	2,707	18.9	4,221	19.7
	Beans, blue lake:						
20332 08	13.1 oz to 18 oz (no. 300, no. 303, etc.)	1,000 cases of 24.	19	17,726	105.1	10,492	45.0
20332 09	Other sizes	1,000 cases..	19	4,341	30.3	4,387	21.0
20332 15	Carrots		19	5,338	29.5	4,598	16.0
20332 35	Vegetable combinations (mixed vegetables, succotash, carrots and peas, vegetable salad, etc.)		21	10,098	56.4	9,063	36.7
20332 52	Pumpkin and squash pie mix		4	290	1.9	512	2.0
20332 54	Pumpkin and squash, except pie mix		14	3,058	23.0	2,404	10.2
20332 55	Spinach		12	5,614	29.6	6,004	21.8
20332 58	Other leafy greens (turnip, kale, mustard, etc.)		7	*2,554	12.8	4,721	16.7
20332 73	Pimientos		7	1,197	12.8	1,578	8.8
20332 74	Sweet potatoes		17	5,176	49.8	5,787	31.4
20332 75	White potatoes		24	*5,908	34.2	6,266	23.0
20332 76	Sauerkraut		13	5,309	29.8	7,708	28.4
20332 91	Asparagus		17	4,358	69.6	6,630	63.7
20332 92	Beans, green and wax, except blue lake		44	28,301	154.1	29,768	116.4
20332 93	Beets		17	8,859	48.4	9,792	32.7
20332 94	Sweet corn, whole kernel		36	40,332	233.0	41,373	160.4
20332 95	Sweet corn, cream style		27	14,969	80.7	15,492	55.8
20332 96	Green peas		37	33,806	208.6	32,741	133.0
20332 39	Other peas (blackeye, crowder, purple hull, field, etc.)		12	3,067	19.9	2,579	10.7
20332 97	Tomatoes		48	37,647	287.6	31,708	138.9
20332 81	Artichokes		1	*10,472	72.2	14,165	60.0
20332 98	Other canned vegetables		39				
20332 00	Canned vegetables, except hominy and mushrooms, n.s.k	1,000 cases..	(NA)	(X)	42.7	3,311	14.8
20333 --	Canned hominy and mushrooms	1,000 cases..	(NA)	(X)	149.8	(NA)	98.2
20333 15	Hominy		8	2,329	9.9	2,419	6.8
20333 21	Mushrooms		21	*8,066	139.0	(NA)	91.4
20333 00	Canned hominy and mushrooms, n.s.k	1,000 cases..	(NA)	(X)	*9	-	-
20334 --	Canned fruit juices, nectars, and concentrates	.....	(NA)	(X)	1,223.4	(X)	709.2
20334 11	Apple juice	1,000 cases..	32	23,350	140.0	16,669	58.9
	Grape juice:						
20334 22	22.1 oz to 27 oz (24-oz glass, etc.)	1,000 cases of 12.	6	(D)	(D)	2,556	12.5
20334 23	Gallon glass	1,000 gal....	-	(D)	(D)	r1,145	r5.1
20334 24	Other sizes and bulk	1,000 cases..	11	(NA)	42.1	10,652	r34.8
20334 28	Pineapple juice		4	(D)	(D)	11,138	31.3
20334 31	Grapefruit juice		20	29,942	148.9	27,611	112.1
20334 92	Orange juice, single strength		28	63,429	309.3	51,503	175.4
20334 51	Grapefruit-orange juice blend		12	*1,054	5.8	1,260	5.0
20334 53	Grapefruit-pineapple juice blend	1,000 cases..	3	180	1.0	409	1.3

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Production by All Producers: 1977 and 1972** - Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with production of $100,000 or more	Production (pack)		Production (pack)	
				Quantity[2]	Value[1] (million dollars)	Quantity	Value (million dollars)
2033- --	CANNED FRUITS AND VEGETABLES--Con.						
20334 --	Canned fruit juices, nectars, and concentrates--Con.						
	Prune juice:						
20334 63	Quart glass	1,000 cases of 12.	9	2,147	12.0	2,372	11.4
20334 65	Other sizes	1,000 cases...	10	3,341	20.0	4,179	21.1
20334 71	Other whole fruit juices and mixtures of whole fruit juices.	1,000 cases...	22	*22,032	140.4	15,369	69.6
20334 91	Fresh fruit juice, to be kept under refrigeration (orange, grape, etc.)	Million gal...	105	208	245.6	129	117.4
20334 93	Nectars	1,000 cases...	12	*6,070	33.6	4,782	16.7
20334 94	Fruit juices, concentrated, hot pack	1,000 cases...	19	*5,138	46.6	4,380	21.0
20334 00	Canned fruit juices, nectars, and concentrates, n.s.k.	.....	(NA)	(X)	35.3	(X)	15.6
20335 --	Canned vegetable juices	1,000 cases...	(NA)	(X)	251.8	42,931	155.7
20335 15	Tomato juice, including combinations containing 70 percent or more tomato juice		34	38,801	213.7	40,679	147.9
20335 98	Other vegetable juices		D	7,177	37.7	1,247	4.3
20335 00	Canned vegetable juices, n.s.k.		(NA)	(X)	.4	[3]1,005	3.5
20336 --	Catsup and other tomato sauces, pastes, etc.	1,000 cases...	(NA)	(X)	1,350.0	106,728	603.3
	Tomato sauces, except catsup and chili sauce, excluding pulp, puree, or paste:						
20336 13	7.1 oz to 10 oz (8-oz short, 8-oz tall, etc.)	1,000 cases of 72.	23	9,286	81.5	12,699	73.4
20336 19	Other sizes	1,000 cases...	37	42,250	333.0	15,715	73.5
	Catsup:						
20336 22	14 oz to 32 oz		23	32,884	276.4	44,514	229.5
20336 23	Other sizes, including individual serving sizes		35	16,974	138.4		
20336 51	Chili sauce	1,000 cases...	25	5,416	40.7	3,020	15.4
	Barbecue sauce:						
20336 81	7.1 oz to 10 oz	1,000 cases of 72.	D	3,575	38.5	8,006	34.6
20336 83	Other sizes	1,000 cases...	12				
	Tomato paste:						
20336 61	4.1 oz to 7 oz (6 oz, etc.)	1,000 cases of 48.	11	4,613	46.4	5,335	32.1
20336 63	100.1 oz to 115 oz (no. 10)	1,000 cases of 6.	14	2,537	33.3	2,061	21.8
20336 65	Other sizes, including bulk (24-percent NTSS equivalent)	Million lb....	16	775	264.2	[4]6,866	76.4
20336 91	Tomato pulp and puree	1,000 cases...	26	9,356	76.0	6,849	37.1
20336 00	Catsup and other tomato sauces, pastes, etc., n.s.k.	1,000 cases...	(NA)	(X)	21.6	1,663	9.5
20338 --	Jams, jellies, and preserves	.....	(NA)	(X)	396.9	(X)	280.3
	Jams and preserves, pure:						
20338 11	Strawberry	Million lb....	29	113.9	61.1	118.0	40.3
20338 15	Other		36	221.6	107.9	302.9	87.7
	Jellies, pure:						
20338 21	Grape		29	198.9	76.5	185.9	42.7
20338 25	Other		39	*187.2	83.0	162.3	42.6
20338 31	Imitation jellies, jams, and preserves		5	(S)	5.6	48.3	10.1
20338 41	Marmalades		13	(S)	9.3	18.3	4.4
20338 51	Fruit butter	Million lb....	D	22.8	8.4	24.4	5.2
20338 61	Maraschino cherries, excluding glace and candied	Million gal...	7	3.9	29.2	5.4	28.9
20338 00	Jams, jellies, and preserves, n.s.k.	.....	(NA)	(X)	16.1	(X)	18.4
20330 00	Canned fruits and vegetables, preserves, jams, and jellies, n.s.k., typically for establishments with 20 employees or more (see note)	.....	(NA)	(X)	200.7	(X)	141.0
20330 02	Canned fruits and vegetables, preserves, jams, and jellies, n.s.k., typically for establishments with less than 20 employees (see note)	.....	(NA)	(X)	108.7	(X)	39.5

See footnotes at end of table.

Table 6a. **Products and Product Classes—Quantity and Value of Production by All Producers: 1977 and 1972**—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	DEHYDRATED FRUITS, VEGETABLES, AND SOUPS						
2034- --	Total	Million lb	(NA)	(X)	1,200.2	1,682.4	625.6
20341 --	Dried and dehydrated fruits and vegetables (including freeze dried) except soup mixes		(NA)	(X)	898.6	1,455.5	466.2
	Fruits, dried and dehydrated:						
20341 13	Raisins		14	248.8	244.2	360.6	98.7
20341 15	Prunes		5	123.1	58.2	236.1	73.8
20341 18	Dates		(NA)	(D)	(D)	42.0	16.9
20341 21	Apples		8	(S)	19.3	26.2	12.4
20341 23	Other dried and dehydrated fruits and fruit peels		12	197.2	128.7	65.0	28.1
	Potatoes, dried and dehydrated, except potato flour:						
	Consumer sizes (1 lb and under)		(NA)	133.2	78.0		
20341 26	Flakes		10	*65.7	31.0	[5]141.4	49.1
20341 27	Granules		(NA)	(D)	(D)		
20341 28	Other		(NA)	(D)	(D)		
	Commercial sizes (over 1 lb)		(NA)	557.0	168.9		
20341 32	Flakes		8	*114.8	36.5	[5]364.5	75.5
20341 33	Granules		5	217.3	67.1		
20341 34	Other		8	224.9	65.3		
20341 37	Onions, dried and dehydrated		(NA)	(D)	(D)	95.7	46.3
20341 38	Vegetable flour, including potato flour		(NA)	(D)	(D)	93.9	56.1
20341 41	Other dried and dehydrated vegetables		20	**107.3	105.2		
20341 00	Dried and dehydrated fruits and vegetables (including freeze dried) except soup mixes, n.s.k.		(NA)	(X)	5.8	[3]30.1	9.3
20342 --	Dried soup mixes:						
20342 11	Soup mixes, dried and dehydrated (including freeze dried)		28	*97.8	224.7	124.0	126.7
20340 00	Dried and dehydrated food products, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	50.4	[3]83.8	26.0
20340 02	Dried and dehydrated food products, n.s.k., typically for establishments with less than 5 employees (see note)	Million lb	(NA)	(X)	26.5	[3]19.1	6.7

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with production of $100,000 or more	Production (pack)[1]		Production (pack)	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
	PICKLES, SAUCES, AND SALAD DRESSINGS						
2035- --	Total	Million gal	(NA)	(X)	2,242.8	644.9	1,165.1
20352 --	Pickles and other pickled products		(NA)	(X)	553.2	239.3	362.5
	Finished pickles:						
	Cucumber:						
20352 11	Dill		42	*94.1	228.3	67.3	113.4
20352 13	Sour		16	*9.5	35.7	10.5	17.5
20352 15	Sweet		30	**25.9	88.2	35.4	77.4
20352 19	Refrigerated pickles, including overnite, half-sour, artificially acidified, etc		12	**16.6	41.9	[r]22.3	[r]44.1
20352 33	Other finished pickles and pickle products, including mixes, relishes, etc		40	*43.4	94.1	[r]35.0	[r]66.0
	Unfinished pickled products:						
20352 71	Unfinished pickles (salt stock)		14	(S)	25.4	[5]54.0	19.2
20352 75	Brined cherries		7	*6.5	19.3	1.2	4.0
20352 98	Other bulk pickled products, such as mushrooms, sauerkraut, etc		13	*3.5	9.5	[5]5.1	9.0
20352 00	Pickles and other pickled products, n.s.k.		(NA)	(X)	10.8	[3]8.5	11.9
20353 --	Meat sauces, except tomato		(NA)	(X)	261.6	91.9	151.3
20353 11	Prepared mustard		38	52.8	91.6	47.6	48.1
20353 51	Other sauces (Worchestershire, soy, etc.)		40	**57.2	169.2	[5]42.6	96.6
20353 00	Meat sauces, except tomato, n.s.k.		(NA)	(X)	.8	[3]4.1	6.6
20354 --	Mayonnaise, salad dressings, and sandwich spreads		(NA)	(X)	1,292.3	267.7	576.0
	Dressing base:						
	Spoon-type:						
20354 11	Salad dressings		65	99.5	336.7	81.4	123.9
20354 23	Mayonnaise		57	*141.0	490.6	94.9	208.5
20354 29	All other spoon type dressing, including sandwich spreads, refrigerated dressing, and all other semisolid type dressing	Million gal	46	**25.7	93.5	33.2	76.0

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Production by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with production of $100,000 or more	Production[1] (pack)		Production (pack)	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	PICKLES, SAUCES, AND SALAD DRESSINGS--Con.						
	Mayonnaise, salad dressings, and sandwich spreads--Con.						
	Dressing base--Con.						
	Pourable dressings:						
20354 31	French dressing	Million gal.	44	*26.9	115.5	14.8	40.9
20354 33	Oil and vinegar dressing		25	19.6	88.9	10.1	34.0
20354 39	Other pourable type dressing, including cheese, low calorie and dietetic, and other liquid types		39	32.2	154.3	25.0	81.2
20354 00	Mayonnaise, salad dressings, and sandwich spreads, n.s.k.		(NA)	(X)	12.8	[4]8.3	11.5
20350 00	Pickled fruits and vegetables, sauce, and salad dressings products, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	76.8	[3]28.3	51.5
20350 02	Pickled fruits and vegetables, sauce, and salad dressings products, n.s.k., typically for establishments with less than 5 employees (see note)	Million gal.	(NA)	(X)	58.9	[3]17.7	23.8
	FROZEN FRUITS AND VEGETABLES						
2037- --	Total		(X)	(NA)	3,047.2	(NA)	1,648.7
20371 --	Frozen fruits, juices, and ades		(X)	(NA)	1,153.5	(NA)	733.6
	Frozen fruits:						
20371 35	Strawberries	Million lb.	25	*200.7	68.5	102.0	37.2
20371 41	Red sour cherries		19	54.9	29.2	87.4	14.3
20371 51	Peaches		5	23.9	5.9	(D)	(D)
20371 55	Apples and applesauce		12	112.0	25.9	147.3	14.2
20371 63	Blueberries		17	47.4	32.1	47.8	18.1
20371 64	Other berries, including raspberries, blackberries, etc.						
20371 67	Other frozen fruits	Million lb.	24	146.2	46.8	133.6	21.7
	Frozen fruit and berry juices, concentrated:						
	Orange juice:						
20371 71	Over 1 gallon	Million cases.	12	**11.5	169.0	5.3	107.5
20371 73	16 oz to 1 gallon	Million cases.					
20371 75	10.1 oz to 13 oz	Million cases of 24.	13	16.8	185.7	12.6	87.9
20371 76	4.1 oz to 7 oz	Million cases of 48.	15	14.8	132.0	10.0	81.8
20371 78	All other sizes	Million cases.	13	5.9	63.5	4.8	48.6
20371 98	Orange juice, n.s.k.	Million cases.	-	-	-	[3]34.1	[6]169.5
	Grapefruit juice:						
20371 81	4.1 oz to 7 oz	Million cases of 48.	4	.5	4.6	([7])	([7])
20371 82	Other sizes	Million cases.	8	9.9	27.0	([7])	([7])
	Lemonade:						
20371 85	4.1 oz to 7 oz	Million cases of 48.	7	2.6	17.8	3.6	15.3
20371 86	10.1 oz to 13 oz	Million cases of 24.	6	3.6	22.0	1.8	7.6
20371 87	Other sizes	Million cases.	5	.5	3.2	1.2	5.8
	Grape juice:						
20371 91	4.1 oz to 7 oz	Million cases of 48.	6	3.7	40.9	3.4	27.5
20371 92	10.1 to 13 oz	Million cases of 24.					
20371 93	Other sizes	Million cases of 24.	8	(S)	17.3	(D)	(D)
20371 95	Other frozen fruit and berry juice, concentrated	Million cases.	17	*24.8	212.8	[7]7.0	[7]41.2
20371 97	Citrus pulp	Short tons	14	441.2	44.8	(S)	12.7
20371 00	Frozen fruits, juices, and ades, n.s.k.		10	(NA)	4.5	(NA)	13.2
20372 --	Frozen vegetables		(X)	6,719.5	1,797.9	(NA)	915.1
20372 11	Asparagus	Million lb.	11	*25.2	23.9	39.7	29.4
20372 13	Green beans, regular and french cut		20	254.1	89.9	238.7	49.5
20372 21	Lima beans--baby emerald and fordhook		17	**112.9	43.2	137.7	28.5
20372 25	Broccoli		13	**245.4	115.3	202.5	51.9
20372 31	Brussels sprouts		10	**57.3	31.2	44.6	14.7
20372 33	Carrots		21	185.9	34.5	129.4	12.2
20372 35	Cauliflower		15	**80.9	42.0	87.1	23.5
20372 41	Green peas		27	309.4	92.3	372.2	58.6
20372 42	Spinach		14	(S)	48.5	172.1	27.3
20372 43	Succotash		7	6.7	2.1	7.3	1.5
20372 44	Peas and carrots		9	43.1	10.5	30.1	4.9
20372 46	Other vegetable combinations (mixed vegetables, peas and onions, etc.)		20	285.6	113.1	191.1	46.2
20372 48	French fried potatoes		25	3,732.2	712.2	2,268.0	327.9
20372 49	Other potato products (patties, puffs, etc.)		19	**354.7	85.4	306.6	55.9
20372 53	Sweet cut corn, yellow		15	285.4	77.2	408.4	48.6
20372 55	Sweet cob corn, yellow	Million lb.	13	176.5	39.4	111.5	13.5

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Production by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Production[1] (pack)		Production (pack)	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	FROZEN FRUITS AND VEGETABLES--Con.						
	Frozen vegetables--Con.						
20372 61	Southern greens--collards, kale, mustard, and turnip	Million lb.	9	85.9	33.4	57.7	8.8
20372 98	Other frozen vegetables		44	508.6	200.6	509.9	100.5
20372 00	Frozen vegetables, n.s.k.	Million lb.	7	(NA)	3.2	(NA)	11.7
20370 00	Frozen fruits, fruit juices, and vegetables, n.s.k., typically for establishments with 20 employees or more (see note)		30	(X)	80.8	(X)	([8])
20370 02	Frozen fruits, fruit juices, and vegetables, n.s.k., typically for establishments with less than 20 employees (see note)		26	(X)	15.1	(X)	([8])
	FROZEN SPECIALTIES						
2038- --	Total	Million lb.	(NA)	(X)	2,911.9	3,673.8	1,742.6
20381 --	Frozen pies and other frozen baked goods		(NA)	(X)	770.3	994.2	387.5
20381 11	Frozen pies (fruit and custard)		28	693.2	346.2	621.8	169.3
20381 13	Sweet yeast goods, including yeast raised donuts, sweet rolls, coffee cake, etc		11	*93.0	88.3	372.4	218.2
20381 14	Soft cakes, including pound, layers, sheet, fruit, cheese, etc		11	161.4	151.7		
20381 17	Doughnuts, cake type (baking powder leavened)		8	108.6	34.4		
20381 18	Other frozen baked goods (waffles, cookies, pastries, etc.), excluding bread and rolls		13	**257.7	127.8		
20381 00	Frozen pies and other frozen baked goods, n.s.k.		(NA)	(X)	21.9	-	-
20382 --	Frozen dinners, beef, pork, poultry pies, and nationality foods		(NA)	(X)	1,297.7	1,440.5	702.0
20382 25	Frozen dinners		17	788.0	503.5	[5]787.4	385.5
20382 31	Frozen beef and pork pies		8	58.5	35.9	[5]192.5	86.9
20382 35	Frozen poultry pies		9	*233.1	99.4	225.2	78.0
20382 40	Frozen pizzas		30	(S)	420.0	293.1	151.1
20382 45	Frozen nationality foods (Chinese, Mexican, Italian, excluding pizza, etc.)		27	(S)	219.5		
20382 00	Frozen dinners, beef, pork, poultry pies and nationality foods, n.s.k.		(NA)	(X)	19.3	[3].8	.5
20383 --	Other frozen specialties:						
20383 11	Other frozen specialties, except seafood, including soups, etc		65	*1,229.5	718.2	890.0	492.5
20380 00	Frozen specialties, n.s.k., typically for establishments with 20 employees or more (see note)		(NA)	(X)	75.1	[3]304.3	[9]140.0
20380 02	Frozen specialties, n.s.k., typically for establishments with less than 20 employees (see note)	Million lb.	(NA)	(X)	50.6	[3]44.8	[9]20.6

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. [r]Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with production of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]Quantity was estimated based on quantity-value relationship of all other products in this industry.

[4]For 1972, unit of measure for quantity of products was 1,000 cases.

[5]Over 30 percent of quantity was estimated.

[6]Includes orange juice, not specified by size, from producers classified in other industries.

[7]For 1972, product codes 20371 81 and 20371 82 were included with product code 20371 95.

[8]For 1972, product codes 20370 00 and 20370 02 were included with product codes 20380 00 and 20380 02.

[9]For 1972, figure covers both industries 2037 and 2038.

Table 6b. Product Classes — Value of Production by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of production	
	1977	1972
20322, CANNED SOUPS, EXCEPT FROZEN OR SEAFOOD; 20324, CANNED SPECIALTIES AND NATIONALITY FOODS; 20320, CANNED SPECIALTIES, N.S.K.		
United States	1,471.2	977.4
New England Division:		
Maine	3.5	AA
Massachusetts	2.1	CC
Middle Atlantic Division:		
New York	30.0	GG
New Jersey	190.2	GG
East North Central Division:		
Ohio	238.2	GG
Indiana	87.4	(NA)
Illinois	148.9	GG
South Atlantic Division:		
Florida	1.7	AA
West South Central Division:		
Louisiana	.3	(NA)
Mountain Division:		
Arizona	6.8	CC
Pacific Division:		
Oregon	.6	(NA)
California	274.5	GG
Hawaii	1.1	(NA)
20323, CANNED DRY BEANS		
United States	556.5	305.8
Middle Atlantic Division:		
New York	11.3	CC
Pennsylvania	49.6	27.8
East North Central Division:		
Indiana	78.3	43.4
Wisconsin	16.3	BB
South Atlantic Division:		
Texas	58.3	37.3
Mountain Division:		
Colorado	3.4	AA
Pacific Division:		
California	57.7	FF
20331, CANNED FRUITS, EXCEPT BABY FOODS		
United States	1,289.3	828.6
Middle Atlantic Division:		
New York	46.4	41.2
New Jersey	38.8	FF
Pennsylvania	71.4	FF
East North Central Division:		
Michigan	71.5	43.6
Wisconsin	29.0	EE
South Atlantic Division:		
Virginia	25.4	17.2
Florida	27.8	27.0
West South Central Division:		
Texas	6.0	CC
Pacific Division:		
Washington	66.9	40.8
Oregon	44.0	FF
California	655.7	402.7
Hawaii	143.1	94.4
20332, CANNED VEGETABLES, EXCEPT HOMINY AND MUSHROOMS		
United States	1,650.9	1,067.1
Middle Atlantic Division:		
New York	64.4	58.0
Pennsylvania	17.4	EE
20332, CANNED VEGETABLES, EXCEPT HOMINY AND MUSHROOMS--Con.		
East North Central Division:		
Ohio	8.6	10.9
Indiana	13.7	14.3
Illinois	112.3	83.6
Michigan	29.9	20.0
Wisconsin	391.0	227.3
West North Central Division:		
Minnesota	197.6	GG
South Atlantic Division:		
Delaware	35.5	31.1
Maryland	32.5	21.5
Virginia	14.5	14.0
North Carolina	13.0	BB
Georgia	18.3	12.5
Florida	12.4	6.3
East South Central Division:		
Tennessee	28.6	EE
West South Central Division:		
Arkansas	35.5	31.7
Louisiana	31.2	29.6
Oklahoma	17.9	11.5
Texas	39.0	15.3
Mountain Division:		
Idaho	31.1	24.2
Pacific Division:		
Washington	63.5	44.2
Oregon	84.2	65.6
California	333.8	179.0
20333, CANNED HOMINY AND MUSHROOMS		
United States	149.8	98.2
Middle Atlantic Division:		
Pennsylvania	96.9	GG
East North Central Division:		
Michigan	15.1	EE
West South Central Division:		
Arkansas	3.1	BB
20334, CANNED FRUIT JUICES, NECTARS, AND CONCENTRATES		
United States	1,223.4	709.2
New England Division:		
Massachusetts	64.1	21.8
Middle Atlantic Division:		
New York	57.2	43.8
New Jersey	72.3	14.8
Pennsylvania	77.8	57.2
East North Central Division:		
Ohio	10.7	8.7
Indiana	17.0	9.8
Illinois	12.5	CC
Michigan	39.0	27.4
South Atlantic Division:		
Maryland	4.9	1.0
Virginia	13.5	9.1
North Carolina	5.2	1.6
Florida	464.7	279.6
West South Central Division:		
Texas	58.3	EE
Pacific Division:		
Washington	68.2	28.8
California	151.0	98.6
Hawaii	29.7	37.3

See footnotes at end of table.

Table 6b. Product Classes — Value of Production by All Producers by Geographic Area: 1977 and 1972—Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of production	
	1977	1972
20335, CANNED VEGETABLE JUICES (INCLUDING MIXTURES)		
United States	251.8	155.7
Middle Atlantic Division:		
Pennsylvania	9.8	5.9
East North Central Division:		
Indiana	15.0	12.3
Pacific Division:		
California	106.5	73.7
20336, CATSUP AND OTHER TOMATO SAUCES, PASTES, ETC.		
United States	1,350.0	603.3
Middle Atlantic Division:		
New York	128.3	EE
New Jersey	49.0	47.1
Pennsylvania	31.0	17.6
East North Central Division:		
Ohio	158.2	78.5
Indiana	43.8	31.5
Pacific Division:		
California	805.7	GG
20338, JAMS, JELLIES, AND PRESERVES		
United States	396.9	280.3
Middle Atlantic Division:		
New York	59.8	38.4
East North Central Division:		
Illinois	8.9	9.3
Wisconsin	3.4	1.0
South Atlantic Division:		
Florida	8.0	4.0
Pacific Division:		
California	60.7	42.7
20341, DRIED AND DEHYDRATED FRUITS AND VEGETABLES		
United States	[1]898.6	[1]466.2
Mountain Division:		
Idaho	133.5	GG
Pacific Division:		
Washington	80.8	37.8
California	588.0	296.3
20342, SOUP MIXES, DRIED (DEHYDRATED OR FREEZE DRIED)		
United States	[1]224.7	[1]126.7
Middle Atlantic Division:		
New York	72.5	58.7
East North Central Division:		
Illinois	32.5	14.2
20352, PICKLES AND OTHER PICKLED PRODUCTS		
United States	553.2	362.5
Middle Atlantic Division:		
New York	19.7	21.3
New Jersey	5.3	4.0
Pennsylvania	4.8	3.9
East North Central Division:		
Ohio	20.6	EE
Indiana	5.0	2.3
Michigan	130.6	83.0
Wisconsin	36.9	20.7
20352, PICKLES AND OTHER PICKLED PRODUCTS--Con.		
South Atlantic Division:		
North Carolina	40.4	18.9
Pacific Division:		
California	78.2	GG
20353, MEAT SAUCES, EXCEPT TOMATO		
United States	261.6	151.3
Middle Atlantic Division:		
New York	6.5	EE
New Jersey	32.8	18.6
Pennsylvania	40.8	33.8
East North Central Division:		
Ohio	17.6	11.8
Indiana	3.5	2.3
Illinois	13.0	8.8
Wisconsin	12.5	AA
West South Central Division:		
Louisiana	17.3	11.2
Pacific Division:		
California	64.0	16.3
20354, MAYONNAISE, SALAD DRESSINGS, AND SANDWICH SPREADS		
United States	1,292.3	576.0
New England Division:		
Massachusetts	19.4	7.3
Middle Atlantic Division:		
New York	34.1	FF
East North Central Division:		
Ohio	38.6	31.3
Indiana	22.5	17.1
Illinois	318.2	114.5
Wisconsin	17.4	CC
West North Central Division:		
Kansas	8.1	AA
South Atlantic Division:		
Maryland	37.5	18.0
Georgia	108.3	FF
East South Central Division:		
Tennessee	18.3	CC
Alabama	39.3	20.2
West South Central Division:		
Texas	85.9	FF
Pacific Division:		
Washington	23.5	EE
California	219.5	106.8
20371, FROZEN FRUITS, JUICES, AND ADES		
United States	1,153.5	733.6
New England Division:		
Maine	8.7	BB
Middle Atlantic Division:		
New York	32.7	20.1
Pennsylvania	17.1	CC
East North Central Division:		
Ohio	3.7	(NA)
Michigan	55.0	39.0
South Atlantic Division:		
Florida	758.4	477.8

See footnotes at end of table.

Table 6b. Product Classes — Value of Production by All Producers by Geographic Area: 1977 and 1972—Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of production	
	1977	1972
20371, FROZEN FRUITS, JUICES, AND ADES--Con.		
West South Central Division:		
Texas	11.3	EE
Pacific Division:		
Washington	44.8	FF
Oregon	50.8	33.9
California	146.8	98.7
20372, FROZEN VEGETABLES		
United States	1,797.9	915.1
New England Division:		
Maine	56.4	GG
Middle Atlantic Division:		
New York	44.2	26.2
Pennsylvania	32.6	EE
East North Central Division:		
Indiana	7.0	BB
Michigan	57.7	23.4
Wisconsin	31.8	EE
West North Central Division:		
Minnesota	80.6	46.9
South Atlantic Division:		
Georgia	38.6	FF
Mountain Division:		
Idaho	316.8	GG
Pacific Division:		
Washington	308.6	143.6
Oregon	266.8	100.4
California	346.6	168.2
20381, FROZEN PIES AND OTHER FROZEN BAKED GOODS		
United States	770.3	387.5
Middle Atlantic Division:		
New York	5.0	CC
Pennsylvania	165.8	107.4
East North Central Division:		
Ohio	7.7	BB
Indiana	9.9	2.2
Illinois	133.5	GG
Michigan	88.2	32.4
East South Central Division:		
Tennessee	37.8	EE
20381, FROZEN PIES AND OTHER FROZEN BAKED GOODS--Con.		
West South Central Division:		
Arkansas	20.4	CC
Pacific Division:		
Oregon	25.9	CC
California	27.8	FF
20382, FROZEN DINNERS, POT PIES, AND NATIONALITY FOODS		
United States	1,297.7	702.0
Middle Atlantic Division:		
New York	71.7	45.0
New Jersey	37.6	6.2
Pennsylvania	23.6	14.6
East North Central Division:		
Ohio	80.1	36.2
Illinois	74.8	62.2
West South Central Division:		
Texas	23.8	EE
Mountain Division:		
New Mexico	2.9	(NA)
Pacific Division:		
California	161.6	90.9
20383, OTHER FROZEN SPECIALTIES		
United States	718.2	492.5
New England Division:		
Massachusetts	6.4	BB
Middle Atlantic Division:		
New Jersey	25.1	16.3
Pennsylvania	17.8	19.8
East North Central Division:		
Ohio	68.4	58.6
Illinois	46.2	50.1
Wisconsin	21.2	45.0
West North Central Division:		
Minnesota	55.3	50.2
South Atlantic Division:		
Florida	28.5	(NA)
West South Central Division:		
Arkansas	89.8	FF
Pacific Division:		
Washington	6.0	AA
California	75.9	45.0

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.

(NA) Not available.

[1]For product classes 20341 and 20342, figures relate to value of shipments rather than value of production.

Table 6c. Product Classes—Value of Production by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2032- 20321	Canned specialties Canned baby foods, except cereal and biscuits[2]	2,429.0 401.3	2,294.2 379.6	2,131.7 339.1	2,015.3 344.3	1,837.1 302.3	1,629.9 346.7	944.4 (NA)	872.8 (NA)
20323	Canned dry beans	556.5	544.3	518.5	470.8	379.2	305.8	246.1	200.3
20322 20324 20320	Soups, canned specialty foods, and canned nationality foods, n.s.k.	1,471.2	1,370.3	1,274.0	1,200.2	1,155.6	977.4	698.3	672.5
2033-	Canned fruits and vegetables	6,621.4	5,983.2	5,931.3	5,362.9	4,480.5	3,922.9	3,222.3	2,583.6
20331	Canned fruits, except baby foods	1,289.3	1,207.5	1,286.4	1,327.4	1,075.4	828.6	818.3	721.7
20332	Canned vegetables, except hominy and mushrooms	1,650.9	1,574.1	1,556.9	1,456.4	1,257.4	1,067.1	957.5	767.6
20333	Canned hominy and mushrooms	149.8	149.2	(109.0)	97.1	100.5	98.2	51.6	39.0
20334	Canned fruit juices, nectars, and concentrates	1,223.4	1,057.1	963.6	849.1	781.7	709.2	413.5	380.5
20335	Canned vegetable juices (including mixtures)	251.8	263.8	241.0	197.0	164.4	155.7	104.2	91.1
20336	Catsup and other tomato sauces, pastes, etc	1,350.0	1,266.0	1,267.4	992.8	664.2	603.3	507.7	297.9
20338	Jams, jellies, and preserves	396.9	424.8	474.4	407.9	290.3	280.3	245.2	227.3
20330	Canned fruits and vegetables, n.s.k.	309.2	(40.7)	(32.6)	(35.2)	146.6	180.5	124.3	58.5
2034-	Dehydrated fruits, vegetables, and soups[3]	1,200.2	1,155.7	1,011.0	1,041.7	808.8	625.6	450.9	334.9
20341	Dried and dehydrated fruits and vegetables[3]	898.6	897.6	804.5	807.1	605.1	466.2	344.9	284.5
20342	Soup mixes, dried (dehydrated or freeze dried)[3]	224.7	(255.6)	206.5	218.7	170.5	126.7	76.4	44.5
20340	Dehydrated fruits, vegetables, and soups, n.s.k[3]	76.9	(2.8)	-	15.9	33.2	32.7	29.6	5.9
2035-	Pickles, sauces, and salad dressings	2,242.8	1,888.1	1,904.7	1,688.2	1,341.6	1,165.1	792.9	619.0
20352	Pickles and other pickled products	553.2	473.9	454.1	392.2	412.1	362.5	260.6	228.1
20353	Meat sauces, except tomato	261.6	271.3	255.6	206.3	187.2	151.3	98.5	94.4
20354	Mayonnaise, salad dressings, and sandwich spreads	1,292.3	1,099.6	1,142.4	1,001.2	662.8	576.0	373.9	278.6
20350	Pickles, sauces, and salad dressing, n.s.k.	135.7	(43.3)	(52.6)	(88.5)	(79.5)	75.3	59.9	(18.0)
2037-	Frozen fruits and vegetables	3,047.2	2,708.2	2,479.0	2,220.2	1,824.1	1,648.7	[4]999.4	[4]832.3
20371	Frozen fruits, juices, and ades	1,153.5	1,133.7	968.1	814.3	766.7	733.6	419.5	436.3
20372	Frozen vegetables	1,797.9	1,562.7	1,498.1	1,405.9	1,057.4	915.1	579.9	396.0
20370	Frozen fruits and vegetables, n.s.k.	95.8	(X)	(X)	(X)	(X)	(X)	([4])	([4])
2038-	Frozen specialties	2,911.9	2,799.8	2,562.5	2,372.6	2,106.8	1,742.6	[4]1,021.3	[4]628.6
20381	Frozen pies and other frozen baked goods	770.3	803.4	740.1	574.5	467.4	387.5		
20382	Frozen dinners, pot pies, and nationality foods	1,297.7	849.6	861.0	907.1	844.2	702.0	889.4	608.1
20383	Other frozen specialties	718.2	1,021.7	831.3	734.1	645.7	492.5		
20380	Frozen specialties, n.s.k.	125.7	(125.1)	(130.1)	(156.9)	149.5	160.6	[4]131.9	[4]20.5

(NA) Not available. n.s.k. Not specified by kind. (X) Not applicable. -represents zero.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with these estimates are published in annual survey of manufactures volumes for this period. Figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]The individual product codes included in this class of product for 1972 differ from the 1967 definition. Products shifting into or out of this class of product represent approximately 10 percent of the total 1967 shipments at the U.S. level.

[3]Figures relate to shipments rather than production,

[4]Data for product class 20370, Frozen Fruits and Vegetables, n.s.k., are included with product class 20380, Frozen Specialties, n.s.k. As a result, total for industry 2037 is understated by approximately 5 percent.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2032, CANNED SPECIALTIES					
	Materials, ingredients, containers, and supplies	.....	(X)	1,552.0	(X)	1,005.2
017011	Fresh fruit	1,000 s. tons..	121.5	24.3	132.0	11.0
	Fresh vegetables:					
016111	Green peas		10.6	2.4	8.1	1.2
013411	Irish potatoes		79.5	7.7	89.9	5.3
016141	Tomatoes		608.2	37.9	732.4	33.0
016131	Sweet corn		76.4	3.8	32.4	.8
016121	Snap or wax beans		30.7	4.7	40.8	4.5
016122	Lima beans		(D)	(D)		
016161	Carrots	1,000 s. tons..	(D)	(D)	(X)	30.1
018211	Mushrooms	Million lb.....	41.9	21.5		
016191	Other fresh vegetables	1,000 s. tons..	188.5	20.4		
	Other materials, ingredients, containers, and supplies:					
203413	Dried beans	1,000 s. tons..	270.5	112.8	223.8	62.5
206011	Sugar (cane and beet)	1,000 cwt.....	2,372.3	28.2	2,125.1	25.3
207006	Fats and oils, all types	Million lb.....	96.2	27.3	79.1	12.0
203411	Dried fruit	1,000 s. tons..	(D)	(D)	2.5	1.2
201013	Fresh and prepared meats, other than poultry	Million lb.....	*240.9	146.7	222.6	128.7
204110	Wheat flour	1,000 cwt.....	1,996.7	18.6	2,371.5	15.8
201601	Dressed poultry	Million lb.....	50.8	48.2	32.0	18.2
203348	Concentrated fruit juices	1,000 gal.....	1.8	9.9	(S)	4.2
203701	Frozen fruit (for further processing)	1,000 s. tons..	4.3	2.4		
203702	Frozen vegetables (for further processing)	1,000 s. tons..	48.0	19.4		
203361	Tomato paste (24 percent NTS equivalent)	Million lb.....	233.0	55.9	(X)	(2)
275001	Printed labels	.....	(X)	28.0		
284055	Detergents and disinfectants	.....	(X)	(D)		
	Containers:					
265001	Paperboard	.....	(X)	59.5	(X)	30.0
341101	Metal cans	.....	(X)	424.5	(X)	223.0
322101	Glass	1,000 gross....	15,662.2	100.2	(X)	81.5
970099	All other materials and components, ingredients, containers, and supplies	.....	(X)	283.0	(X)	[2]292.2
971000	Material, ingredients, containers, and supplies, n.s.k.[3]	.....	(X)	50.0	(X)	24.7
	INDUSTRY 2033, CANNED FRUITS AND VEGETABLES					
	Materials, ingredients, containers, and supplies	.....	(X)	3,896.6	(X)	2,269.8
	Fresh fruit:					
017411	Oranges	1,000 s. tons..	*1,905.5	117.6	1,653.4	86.3
017511	Apples		925.3	105.0	804.4	45.0
017515	Apricots		79.7	13.1	74.6	9.3
017211	Grapes		237.5	43.3	248.7	31.5
017521	Peaches		779.3	106.3	615.6	55.7
017525	Pears		365.3	51.0	299.3	36.8
017911	Pineapples		315.3	51.7	717.2	30.6
017412	Grapefruit		(S)	37.9	(X)	106.5
017021	Other fresh fruits		**282.4	71.3		
	Fresh vegetables:					
016151	Cucumbers		(4)	(4)	6.0	.7
016111	Green peas		304.4	57.7	317.2	32.5
013411	Irish potatoes		*97.6	6.5	117.5	4.8
016141	Tomatoes		6,671.2	430.5	4,719.3	163.9
016131	Sweet corn		1,873.7	81.2	1,550.3	36.5
016121	Snap or wax beans		*503.2	66.3	353.1	31.6
016122	Lima beans		18.8	5.5		
016161	Carrots	1,000 s. tons..	123.9	6.6	(X)	107.7
018211	Mushrooms	Million lb.....	**138.6	85.9		
016191	Other fresh vegetables	1,000 s. tons..	**941.7	87.3		
	Other materials, ingredients, containers, and supplies:					
203413	Dried beans	Million lb.....	34.4	17.7	42.6	12.4
206011	Sugar (cane and beet)	1,000 cwt.....	7,804.5	110.7	9,935.9	110.2
207006	Fats and oils, all types	Million lb.....	43.2	12.8	54.8	8.3
203411	Dried fruit	1,000 s. tons..	26.6	14.9	35.6	17.4
201013	Fresh and prepared meats, other than poultry	Million lb.....	4.6	2.7	3.6	2.0
204110	Wheat flour	1,000 cwt.....	(4)	(4)	(5)	(5)
201601	Dressed poultry	Million lb.....	(4)	(4)	(5)	(5)
203348	Concentrated fruit juices	Million gal....	21.6	107.9	11.8	29.1
203701	Frozen fruit (for further processing)	1,000 s. tons..	66.3	54.1		
203702	Frozen vegetables (for further processing)	1,000 s. tons..	13.0	3.5		
203361	Tomato paste (24 percent NTSS equivalent)	Million lb.....	197.8	57.3	(X)	(5)
275001	Printed labels	.....	(X)	37.1		
284055	Detergents and disinfectants	.....	(X)	1.7		
	Containers:					
265001	Paperboard containers	.....	(X)	108.3	(X)	53.9
341101	Metal cans	.....	(X)	942.0	(X)	539.5
322101	Glass containers	1,000 gross....	(S)	297.6	(NA)	173.1
970099	All other materials, ingredients, containers, and supplies	.....	(X)	[4]446.0	(X)	[5]429.6
971000	Materials, ingredients, containers, and supplies, n.s.k.[3]	.....	(X)	257.6	(X)	114.9

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS					
	Materials, ingredients, containers, and supplies		(NA)	642.7	(NA)	324.3
016101	Fresh vegetables	1,000 s. tons	2,858.5	145.8	2,517.0	62.0
017011	Fresh fruits		250.2	44.8	391.2	16.3
203411	Dried fruits	1,000 s. tons	*291.0	237.6	312.6	122.9
206011	Sugar (cane and beet)	1,000 cwt	210.6	3.6	88.8	1.1
265001	Paperboard boxes and containers		(X)	47.6	(X)	(X)
970099	All other materials, ingredients, containers, and supplies		(X)	120.0	(X)	104.0
971000	Materials, ingredients, containers, and supplies n.s.k.[3]		(X)	43.3	(X)	18.0
	INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS[6]					
	Materials, ingredients, containers, and supplies		(X)	1,796.5	(X)	707.6
016151	Cucumbers	1,000 s. tons	*720.7	113.9	531.1	63.5
016191	Other fresh vegetables		(S)	14.8	65.8	7.6
017011	Fresh fruits		**22.9	7.3	14.7	2.4
203411	Dried fruits	1,000 s. tons	(S)	.6	.2	.3
204110	Wheat flour	1,000 cwt	(D)	(D)	51.7	.7
204602	Corn sirup	Million lb	*233.4	20.7	127.7	8.8
206011	Sugar (cane and beet)	1,000 cwt	(D)	(D)	2,902.5	34.9
207006	Fats and oils, all types	Million lb	(S)	708.8	1,402.1	185.8
322101	Glass containers	1,000 gross	*15,630.7	229.0	13,734.4	131.6
265001	Paperboard boxes and containers		(X)	45.0	(X)	214.2
970099	All other materials, ingredients, containers, and supplies		(X)	521.5		
971000	Materials, ingredients, containers, and supplies, n.s.k.[3]		(X)	98.1	(X)	57.8
	INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES					
	Materials, ingredients, containers, and supplies		(NA)	1,795.3	(NA)	1,057.5
	Fresh fruit:					
017411	Oranges	1,000 s. tons	4,518.1	367.8	4,315.7	291.5
017511	Apples		*160.5	21.7	153.5	8.0
017521	Peaches		26.4	4.5	20.0	1.8
017111	Strawberries		52.6	22.7	43.7	16.6
017021	Other fresh fruits		(NA)	133.6	(NA)	87.0
	Fresh vegetables:					
016111	Green peas		*168.8	*31.1	196.1	19.9
013411	Irish potatoes		4,467.2	282.9	3,092.4	126.8
016131	Sweet corn		540.8	32.4	639.4	19.6
016121	Snap or wax beans		*136.4	*22.6	115.5	14.0
016191	Other fresh vegetables	1,000 s. tons	(NA)	210.2	(NA)	108.3
	Other materials, ingredients, containers, and supplies:					
206011	Sugar (cane and beet)	1,000 cwt	(S)	28.7	1,607.1	18.6
207006	Fats and oils, all types	Million lb	(X)	69.2	190.2	28.2
204110	Wheat flour	1,000 cwt			42.2	.5
	Containers:					
265001	Paperboard containers		(X)	168.0	(X)	79.6
341101	Metal cans		(X)	64.3	(X)	48.6
970099	All other materials, ingredients, containers, and supplies		(X)	276.9	(X)	172.2
971000	Materials, ingredients, containers, and supplies, n.s.k.[3]		(X)	58.7	(X)	16.3
	INDUSTRY 2038, FROZEN SPECIALTIES					
	Materials, ingredients, containers, and supplies		(X)	1,690.0	(X)	982.8
	Fresh fruits:					
017511	Apples	1,000 s. tons	20.3	10.8	22.0	9.1
017521	Peaches		(NA)	4.0	(NA)	11.3
017111	Strawberries					
017021	Other fresh fruits		(NA)	19.0	(NA)	17.2
016101	Fresh vegetables	1,000 s. tons	25.1	9.3	47.4	9.8
203361	Tomato paste (24 percent NTSS equivalent)	Million lb	(X)	22.9	(X)	(7)
206011	Sugar (cane and beet)	1,000 cwt	(S)	39.1	1,603.4	20.4
207006	Fats and oils, all types	Million lb	(S)	68.0	283.9	45.0
201013	Fresh and prepared meats, other than poultry	Million lb	240.6	187.0	200.9	138.7
204110	Wheat flour	1,000 cwt	(S)	87.1	5,645.4	35.9
201601	Dressed poultry	Million lb	398.3	176.0	243.5	85.0
	Containers:					
265011	Paperboard containers		(X)	205.6	(X)	101.5
341101	Metal cans		(X)	7.2	(X)	5.0
970099	All other materials, ingredients, containers, and supplies		(X)	667.0	(X)	[7]416.0
971000	Materials, ingredients, containers, and supplies, n.s.k.[3]		(X)	187.0	(X)	87.9

Footnotes are on next page.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]For 1972, material codes 203701, 203702, 203361, 275001, and 284055 were included with material code 970099.

[3]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[4]For 1977, material codes 016151, 204110, and 201601 were included with material code 970099.

[5]For 1972, material codes 204110, 201601, and 203361 were included with material code 970099.

[6]For 1977, industry classification of several establishments changed to this industry because of a change in the products they produced. As a result, 1977 data are not directly comparable with data for prior years.

[7]For 1972, material code 203361 was included with material code 970099.

Grain Mill Products

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DESCRIPTION OF INDUSTRIES

GRAIN MILL PRODUCTS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2041	Flour and Other Grain Mill Products
2043	Cereal Breakfast Foods
2044	Rice Milling
2045	Blended and Prepared Flour
2046	Wet Corn Milling
2047	Dog, Cat and Other Pet Food
2048	Prepared Feeds, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2041, FLOUR AND OTHER GRAIN MILL PRODUCTS

This industry comprises establishments primarily engaged in milling flour or meal from grain, except rice. The products of flour mills may be sold plain or in the form of prepared mixes or doughs for specific purposes. Establishments primarily engaged in the manufacture of prepared flour mixes or doughs from purchased ingredients are classified in industry 2045, and rice milling in industry 2044.

The total value of shipments for establishments classified in the Flour and Other Grain Mill Products industry amounted to $3,683 million in 1977, an increase of 55 percent from 1972. The value of shipments of products classified as primary to the industry was $4,883 million, an increase of 61 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $825 million in 1977, was 62 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 15.6 thousand employees, a decrease of 3 percent from 1972. The leading States in employment were Kansas, Illinois, Missouri, and Minnesota, accounting for approximately 35 percent of the industry's 1977 employment. This represents a shift from 1972 when Illinois, Kansas, Tennessee, and Missouri accounted for approximately 35 per-

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

INDUSTRY 2043, CEREAL BREAKFAST FOODS

This industry comprises establishments primarily engaged in the manufacture of cereal breakfast foods and related preparations.

The total value of shipments for estatablishments classified in the Cereal Breakfast Foods industry amounted to $2,498 million in 1977, an increase of 122 percent from 1972. The value of shipments of products classified as primary to the industry was $1,833 million, an increase of 96 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $1,447 million in 1977, was 110 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 16.4 thousand employees, an increase of 27 percent from 1972. The leading States in employment were Michigan, Minnesota, Iowa, and California. Data for Michigan, Minnesota, Iowa, and California have been withheld to avoid disclosing operations of individual companies.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for less than 1 percent of total value of shipments.

INDUSTRY 2044, RICE MILLING

This industry comprises establishments primarily engaged in cleaning and polishing rice, and in the manufacture of rice flour or meal. Other important products of this industry include brown rice, milled rice (including polished rice), rice polish, and rice bran.

The total value of shipments for establishments classified in the Rice Milling industry amounted to $1,263 million in 1977, an increase of 86 percent from 1972. The value of shipments of products classified as primary to the industry was $1,242 million, an increase of 85 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $341 million in 1977, was 130 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 4.8 thousand employees, an increase of 20 percent from 1972. The leading States in employment were Texas, Arkansas, Louisiana, and California. Data for California have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2045, BLENDED AND PREPARED FLOUR

This industry comprises establishments primarily engaged in the preparation of blended flours and flour mixes or doughs from purchased flour. Establishments primarily engaged in milling flour from grain are classified in industry 2041.

The total value of shipments for establishments classified in the Blended and Prepared Flour industry amounted to $1,012 million in 1977, an increase of 44 percent from 1972. The value of shipments of products classified as primary to the industry was $1,204 million, an increase of 51 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $409 million in 1977, was 33 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 8.4 thousand employees, an increase of 6 percent from 1972. The leading States in employment were Illinois, Texas, Indiana, and New York. Data for Illinois, Indiana, and New York have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of total value of shipments.

INDUSTRY 2046, WET CORN MILLING

This industry comprises establishments primarily engaged in milling corn or sorghum grain (milo) by the wet process, and producing starch, sirup, oil, sugar, and byproducts, such as gluten feed and meal. Establishments primarily engaged in the manufacture of starch from other vegetable sources (potato, wheat, etc.) are also included. Establishments primarily engaged in the manufacture of table sirups from corn sirup and other ingredients, and those manufacturing starch base dessert powders, are classified in industry 2099.

The total value of shipments for establishments classified in the Wet Corn Milling industry amounted to $2,015 million in 1977, an increase of 142 percent from 1972. The value of shipments of products classified as primary to the industry was $1,946 million, an increase of 147 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $667 million in 1977, was 101 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 10.9 thousand employees, a decrease of 10 percent from 1972. The leading States in employment were Illinois, Iowa, Indiana, and Missouri. Data for Illinois and Missouri have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 15 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for less than 1 percent of total value of shipments.

INDUSTRY 2047, DOG, CAT, AND OTHER PET FOOD

This industry comprises establishments primarily engaged in the manufacture of dog, cat and other pet food from cereal, meat, and other ingredients. These preparations may be canned, frozen, or dry. This industry also includes establishments slaughtering animals for pet food. Establishments primarily

engaged in the manufacture of feed for animals, other than pets, are classified in industry 2048.

The total value of shipments for establishments classified in the Dog, Cat, and Other Pet Food industry amounted to $3,087 million in 1977, an increase of 120 percent from 1972. The value of shipments of products classified as primary to the industry was $3,071 million, an increase of 112 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were dry dog food shipped in packages of under 25 pounds, for which shipments increased 165 percent, and dry dog food shipped in packages of 25 pounds or over, for which shipments increased 193 percent. Value added by manufacture, at $1,393 million in 1977, was 127 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 17.7 thousand employees, an increase of 24 percent from 1972. The leading States in employment were Illinois, California, Pennsylvania, and Ohio, accounting for approximately 35 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

INDUSTRY 2048, PREPARED FEEDS, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of prepared feeds and feed ingredients and adjuncts, for animals and fowls, not elsewhere classified. This industry includes poultry and livestock feed and feed ingredients, such as alfalfa meal, feed supplements, and feed concentrates and feed premixes. Establishments primarily engaged in the manufacture of pet foods are classified in industry 2047.

The total value of shipments for establishments classified in the Prepared Feed, N.E.C., industry amounted to $8,787 million in 1977, an increase of 74 percent from 1972. The value of shipments of products classified as primary to the industry was $8,350 million, an increase of 79 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $1,545 million in 1977, was 40 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 39.1 thousand employees, a decrease of 11 percent from 1972. The leading States in employment were Iowa, Texas, California, and Nebraska. Data for Texas have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided. This represents a shift from 1972 when Texas, Iowa, Illinois, and California accounted for 30 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2041, FLOUR AND OTHER GRAIN MILL PRODUCTS																
1977 Census--	300	407	173	15.6	222.3	11.3	24.6	153.4	824.5	2 854.2	3 683.3	52.4	(NA)	263.2	98	71
1976 ASM----	(NA)	(NA)	(NA)	17.5	217.1	12.5	26.9	149.0	746.1	3 343.9	4 095.9	53.6	607.2	303.3	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	17.7	204.0	12.9	27.7	139.3	714.9	3 589.5	4 327.6	45.8	593.2	328.2	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	17.4	185.3	13.0	28.1	128.7	609.1	3 902.1	4 502.2	44.0	539.3	381.1	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	17.0	167.9	12.7	28.4	118.5	589.1	2 785.7	3 328.3	29.8	494.4	375.7	(NA)	(NA)
1972 Census--	340	457	181	16.1	152.8	11.9	26.9	108.1	509.8	1 885.2	2 380.0	30.0	467.0	211.3	97	74
1971 ASM----	(NA)	(NA)	(NA)	18.0	160.9	13.2	29.2	111.9	528.7	1 920.7	2 451.0	24.8	482.6	186.0	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	19.0	161.7	13.7	30.6	109.8	535.1	1 906.1	2 436.3	36.3	488.5	198.5	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	20.0	155.9	14.5	32.4	105.4	497.3	1 884.3	2 387.0	31.1	496.8	181.1	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	19.8	147.3	14.4	32.4	98.7	498.6	1 886.0	2 383.4	26.1	483.9	188.1	(NA)	(NA)
1967 Census--	438	541	213	20.5	142.9	14.8	33.2	95.5	491.3	1 966.0	2 457.4	26.3	478.2	192.4	93	78
1966 ASM----	(NA)	(NA)	(NA)	20.1	133.8	14.7	33.3	90.6	433.9	1 914.9	2 344.9	36.0	(NA)	204.1	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	20.7	133.2	15.1	34.2	90.7	405.8	1 739.4	2 145.5	21.9	(NA)	190.8	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	21.9	138.5	16.0	36.9	93.3	399.8	1 791.3	2 193.1	21.2	450.7	182.4	(NA)	(NA)
1963 Census--	510	618	218	22.4	137.7	16.4	38.4	94.9	373.1	1 804.0	2 176.5	23.5	433.8	232.2	94	78
INDUSTRY 2043, CEREAL BREAKFAST FOODS																
1977 Census--	32	48	35	16.4	287.4	13.8	28.8	230.0	1 447.0	1 061.2	2 497.5	79.8	(NA)	152.1	74	93
1976 ASM----	(NA)	(NA)	(NA)	15.0	241.6	12.6	25.6	196.5	1 234.7	927.9	2 158.2	76.1	583.7	135.1	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	13.9	209.6	11.6	24.9	169.3	1 055.9	979.4	2 027.7	54.8	485.0	117.4	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	13.9	181.9	11.6	24.2	146.0	808.5	837.2	1 641.1	54.9	430.4	126.7	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	13.1	161.6	11.0	23.5	129.6	710.0	568.4	1 281.1	33.9	374.2	99.7	(NA)	(NA)
1972 Census--	24	47	26	12.9	140.9	10.7	21.6	111.6	688.4	439.1	1 125.5	24.9	351.9	78.8	77	84
1971 ASM----	(NA)	(NA)	(NA)	12.5	126.4	10.3	21.1	99.4	636.7	417.3	1 048.2	23.0	344.2	77.4	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	12.0	115.1	9.9	20.1	89.7	591.6	366.1	953.1	30.9	323.8	66.4	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	11.5	105.0	9.4	19.5	80.7	532.0	324.5	857.5	20.9	292.2	53.6	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	11.4	95.3	9.3	19.1	72.7	499.6	317.7	816.7	12.1	255.6	55.7	(NA)	(NA)
1967 Census--	30	45	28	12.2	93.8	10.1	20.2	71.9	473.3	322.7	793.0	18.4	246.3	54.7	81	82
1966 ASM----	(NA)	(NA)	(NA)	11.8	87.5	9.8	20.0	68.2	442.5	300.9	742.9	19.2	(NA)	53.4	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	11.9	84.2	9.9	19.8	65.8	415.6	293.8	707.1	16.2	(NA)	55.5	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	11.5	80.0	9.6	19.4	63.1	390.7	280.0	671.3	21.2	216.3	50.7	(NA)	(NA)
1963 Census--	35	48	30	11.4	75.1	9.4	18.8	59.6	365.0	264.7	625.1	15.3	196.9	49.9	80	86
INDUSTRY 2044, RICE MILLING																
1977 Census--	48	59	38	4.8	61.4	4.0	8.4	40.7	341.0	948.6	1 263.4	40.0	(NA)	411.4	100	86
1976 ASM----	(NA)	(NA)	(NA)	4.7	58.2	3.8	7.6	38.1	280.1	921.7	1 204.6	27.2	171.1	328.2	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	4.4	52.8	3.5	7.4	34.0	238.6	1 181.8	1 433.9	16.0	143.9	318.3	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	4.4	46.8	3.5	7.0	29.7	265.8	1 166.8	1 422.6	12.7	129.7	296.0	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	3.9	34.9	2.9	6.5	20.5	166.5	730.6	880.6	5.8	116.9	314.6	(NA)	(NA)
1972 Census--	48	57	35	4.0	30.9	3.0	6.6	19.1	148.3	535.7	680.6	6.3	117.2	195.5	100	98
1971 ASM----	(NA)	(NA)	(NA)	3.8	27.1	2.8	6.3	16.7	128.9	399.1	518.4	14.5	105.6	141.4	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	4.2	27.3	3.0	6.8	16.4	112.9	452.6	564.8	4.4	98.6	128.7	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	4.2	26.6	3.2	7.1	16.6	126.7	457.6	580.3	5.6	96.7	135.3	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	4.2	25.9	3.2	7.0	15.9	107.6	445.4	556.7	8.4	92.4	132.2	(NA)	(NA)
1967 Census--	54	68	46	4.2	24.4	3.2	7.2	15.0	103.8	447.2	548.4	9.8	86.0	123.0	100	98
1966 ASM----	(NA)	(NA)	(NA)	4.0	21.0	3.0	6.9	13.3	86.2	371.9	457.6	7.2	(NA)	107.1	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	4.2	20.7	3.2	7.5	13.7	84.5	375.5	456.6	5.0	(NA)	103.0	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	4.2	21.1	3.2	7.3	13.3	70.0	361.0	442.9	4.5	63.2	102.3	(NA)	(NA)
1963 Census--	62	74	49	4.3	20.3	3.2	7.3	12.7	80.5	351.1	423.0	3.3	57.8	109.6	100	100
INDUSTRY 2045, BLENDED AND PREPARED FLOUR																
1977 Census--	111	137	60	8.4	104.5	5.8	12.1	68.0	408.7	606.3	1 011.7	17.6	(NA)	80.6	94	75
1976 ASM----	(NA)	(NA)	(NA)	8.2	104.8	5.6	12.2	71.0	440.8	674.2	1 105.2	18.3	187.1	85.5	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	8.2	98.9	6.0	12.6	67.7	431.7	699.4	1 139.1	19.4	186.4	76.6	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	7.8	84.2	5.8	11.9	58.6	352.3	654.8	996.8	10.2	169.1	74.6	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	8.1	83.0	6.0	13.5	59.0	307.5	484.0	785.7	14.0	168.2	58.0	(NA)	(NA)
1972 Census--	115	137	57	7.9	74.9	5.7	12.3	53.2	306.8	401.7	704.6	13.7	157.6	47.6	77	85
1971 ASM----	(NA)	(NA)	(NA)	6.3	59.5	4.7	9.4	40.9	253.2	320.7	574.0	9.3	139.0	36.8	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	7.2	59.4	5.2	10.4	40.3	262.0	319.9	581.6	14.1	142.7	36.9	(NA)	(NA)
1969 ASM[6]---	(NA)	(NA)	(NA)	7.7	63.7	5.6	11.8	39.3	275.5	335.3	605.8	13.2	142.7	44.9	(NA)	(NA)
1968 ASM[6]---	(NA)	(NA)	(NA)	7.4	59.1	5.4	11.3	36.3	229.8	322.8	550.3	9.3	132.7	39.5	(NA)	(NA)
1967 Census--	126	148	58	7.5	55.0	5.5	11.3	35.4	233.1	314.9	547.5	10.5	130.9	37.5	78	83
1966 ASM----	(NA)	(NA)	(NA)	7.3	51.5	5.1	10.4	31.7	205.7	298.3	502.9	8.9	(NA)	35.8	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	7.2	49.7	5.0	10.4	30.8	205.4	284.6	488.8	9.8	(NA)	38.2	(NA)	(NA)
1964 ASM[6]---	(NA)	(NA)	(NA)	7.6	48.8	4.9	10.3	28.2	214.9	291.3	509.5	8.7	111.0	33.8	(NA)	(NA)
1963 Census--	140	165	80	7.2	45.4	5.1	10.7	27.4	177.8	255.7	434.0	6.1	107.3	33.5	78	82

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2046, WET CORN MILLING																
1977 Census--	22	39	27	10.9	191.1	7.8	15.7	132.2	666.7	1 338.0	2 014.8	232.2	(NA)	158.4	94	93
1976 ASM----	(NA)	(NA)	(NA)	11.0	179.8	8.0	16.5	126.1	650.2	1 352.4	2 002.5	164.7	1 192.8	163.7	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	10.9	162.9	7.9	16.5	112.7	872.9	1 274.8	2 141.7	157.8	1 067.9	142.9	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	11.1	151.4	7.7	15.9	92.5	673.4	1 197.5	1 852.1	82.1	958.1	143.6	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	11.7	143.7	8.2	17.0	94.1	359.7	768.9	1 123.0	67.3	917.9	91.7	(NA)	(NA)
1972 Census--	26	41	27	12.1	137.7	8.4	17.1	88.6	331.2	498.7	832.3	59.7	857.5	82.8	93	97
1971 ASM----	(NA)	(NA)	(NA)	13.0	134.0	9.0	18.0	86.7	328.4	475.7	807.3	35.8	785.1	82.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	13.5	143.9	9.3	19.9	89.3	373.5	460.7	830.5	40.5	765.1	95.2	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	13.5	129.8	9.4	20.1	82.2	395.9	436.4	828.5	35.2	740.5	76.8	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	14.1	120.1	9.9	20.2	78.4	382.8	396.6	781.1	40.4	690.3	75.7	(NA)	(NA)
1967 Census--	32	45	23	14.1	116.1	9.8	20.3	75.2	353.6	401.7	751.3	40.5	660.9	77.3	84	96
1966 ASM----	(NA)	(NA)	(NA)	13.9	106.6	9.9	21.0	73.6	346.6	417.7	755.3	43.7	(NA)	81.6	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	12.9	98.4	9.3	20.4	70.3	302.7	382.1	679.9	47.7	(NA)	68.9	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	12.5	95.3	9.2	19.7	66.0	291.8	345.1	629.5	47.9	522.9	65.1	(NA)	(NA)
1963 Census--	49	60	20	13.2	89.7	9.8	20.9	65.3	290.9	335.8	622.4	26.1	489.3	65.5	83	93
INDUSTRY 2047, DOG, CAT, AND OTHER PET FOOD[3]																
1977 Census--	218	290	132	17.7	245.5	13.4	27.7	170.3	1 392.9	1 697.2	3 086.7	67.2	(NA)	200.7	92	88
1976 ASM----	(NA)	(NA)	(NA)	16.4	212.8	12.3	26.5	147.1	1 137.1	1 534.4	2 675.6	36.4	710.7	180.7	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	16.3	191.3	12.3	26.3	135.0	945.1	1 376.9	2 326.0	63.4	692.2	172.0	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	15.9	171.2	12.2	25.5	121.1	826.7	1 266.9	2 079.2	84.5	624.3	175.2	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	15.6	159.6	12.1	27.3	113.4	734.5	1 211.3	1 919.9	72.1	507.8	149.2	(NA)	(NA)
1972 Census--	147	221	112	14.3	135.1	11.0	24.0	96.3	613.8	794.5	1 401.9	61.1	401.7	90.4	94	97
INDUSTRY 2048, PREPARED FEEDS, N.E.C.[3]																
1977 Census--	1 439	2 063	610	39.1	463.4	23.2	48.2	239.6	1 544.7	7 242.7	8 786.8	130.9	(NA)	448.2	96	95
1976 ASM----	(NA)	(NA)	(NA)	41.6	438.3	25.5	55.0	227.5	1 594.0	6 378.5	7 947.2	99.0	1 117.9	429.8	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	42.6	409.6	26.4	56.5	214.8	1 384.4	5 872.0	7 265.1	94.9	1 086.8	373.2	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	43.4	394.7	26.6	57.0	209.5	1 406.6	6 336.2	7 731.2	109.7	1 014.7	415.1	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	41.0	351.5	25.1	57.6	191.3	1 307.7	5 500.8	6 777.1	88.3	972.0	352.6	(NA)	(NA)
1972 Census--	1 579	2 120	653	44.0	340.5	27.7	60.6	188.6	1 100.5	3 948.8	5 037.1	70.8	984.4	268.1	96	96

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2041, FLOUR AND OTHER GRAIN MILL PRODUCTS											
1977 Census--	14 278	(NA)	72	2 174	6.22	77	83	(NA)	52 970	26	33.48
1976 ASM----	12 405	34 697	71	2 152	5.53	81	86	14	42 634	29	27.73
1975 ASM----	11 525	33 514	72	2 147	5.02	82	87	13	40 389	28	25.80
1974 ASM----	10 649	30 994	74	2 161	4.58	86	90	11	35 005	30	21.67
1973 ASM----	9 876	29 082	74	2 236	4.17	83	88	14	34 652	28	20.74
1972 Census--	9 490	29 006	73	2 260	4.01	79	85	19	31 664	29	18.95
1971 ASM----	8 938	26 811	73	2 212	3.83	78	84	19	29 372	30	18.10
1970 ASM----	8 510	25 710	72	2 233	3.58	78	84	20	28 163	30	17.48
1969 ASM----	7 795	24 840	72	2 234	3.25	78	85	20	24 865	31	15.34
1968 ASM----	7 439	24 439	72	2 250	3.04	79	85	20	25 181	29	15.38
1967 Census--	6 970	23 326	72	2 243	2.87	80	85	19	23 965	29	14.79
1966 ASM----	6 656	(NA)	73	2 265	2.72	81	87	(NA)	21 587	30	13.03
1965 ASM----	6 434	(NA)	72	2 264	2.65	81	87	(NA)	19 603	32	11.86
1964 ASM----	6 324	20 579	73	2 306	2.52	81	87	20	18 255	34	10.83
1963 Census--	6 147	19 366	73	2 341	2.47	82	89	19	16 656	36	9.71
INDUSTRY 2043, CEREAL BREAKFAST FOODS											
1977 Census--	17 530	(NA)	84	2 089	7.97	42	53	(NA)	88 276	19	50.21
1976 ASM----	16 106	38 913	84	2 031	7.67	42	54	27	82 313	19	48.23
1975 ASM----	15 079	34 892	83	2 146	6.79	48	58	23	75 964	19	42.40
1974 ASM----	13 086	30 964	83	2 086	6.03	51	62	26	58 165	22	33.40
1973 ASM----	12 335	28 564	83	2 136	5.51	44	56	29	54 198	22	30.21
1972 Census--	10 922	27 279	82	2 018	5.16	39	51	31	53 364	20	31.87
1971 ASM----	10 112	27 536	82	2 048	4.71	39	51	32	50 936	19	30.17
1970 ASM----	9 591	26 963	82	2 030	4.46	38	50	33	49 300	19	29.43
1969 ASM----	9 130	25 408	81	2 074	4.13	37	50	34	46 260	19	27.28
1968 ASM----	8 359	22 421	81	2 053	3.80	38	50	31	43 824	19	26.15
1967 Census--	7 668	20 188	82	2 000	3.55	40	52	31	38 795	19	23.43
1966 ASM----	7 415	(NA)	83	2 040	3.41	40	52	(NA)	37 500	19	22.12
1965 ASM----	7 075	(NA)	83	2 000	3.32	41	53	(NA)	34 924	20	20.98
1964 ASM----	6 956	18 808	83	2 020	3.25	41	53	32	33 973	20	20.13
1963 Census--	6 587	17 271	82	2 000	3.17	42	54	31	32 017	20	19.41
INDUSTRY 2044, RICE MILLING											
1977 Census--	12 702	(NA)	82	2 118	4.83	75	79	(NA)	70 562	18	40.46
1976 ASM----	12 382	36 404	80	2 000	5.01	76	81	14	59 595	20	36.85
1975 ASM----	12 000	32 704	79	2 114	4.59	82	86	10	54 227	22	32.24
1974 ASM----	10 636	29 477	79	2 000	4.24	82	85	9	60 409	17	37.97
1973 ASM----	8 948	29 974	74	2 241	3.15	82	86	13	42 692	20	25.61
1972 Census--	7 725	29 300	75	2 200	2.89	78	83	17	37 075	20	22.46
1971 ASM----	7 131	27 789	73	2 250	2.65	76	82	20	33 921	21	20.46
1970 ASM----	6 500	23 476	71	2 268	2.41	80	84	17	26 880	24	16.60
1969 ASM----	6 333	23 023	76	2 218	2.33	78	83	16	30 166	20	17.84
1968 ASM----	6 166	22 000	76	2 187	2.27	80	84	16	25 619	24	15.37
1967 Census--	5 809	20 476	76	2 250	2.08	81	85	15	24 714	23	14.41
1966 ASM----	5 250	(NA)	75	2 300	1.92	81	85	(NA)	21 550	24	12.49
1965 ASM----	4 928	(NA)	76	2 343	1.82	82	86	(NA)	20 119	24	11.26
1964 ASM----	5 023	15 047	76	2 281	1.82	81	86	14	16 666	30	9.58
1963 Census--	4 720	13 441	74	2 281	1.73	83	87	13	18 720	25	11.02
INDUSTRY 2045, BLENDED AND PREPARED FLOUR											
1977 Census--	12 482	(NA)	68	2 101	5.62	59	70	(NA)	48 815	25	33.80
1976 ASM----	12 780	22 817	68	2 178	5.81	61	70	16	53 756	23	36.13
1975 ASM----	12 060	22 731	73	2 100	5.37	61	70	16	52 646	22	34.26
1974 ASM----	10 794	21 679	74	2 051	4.92	65	74	16	45 166	23	29.60
1973 ASM----	10 246	20 765	74	2 250	4.37	61	72	21	37 962	26	22.77
1972 Census--	9 481	19 949	72	2 157	4.32	57	67	22	38 835	24	24.94
1971 ASM----	9 444	22 063	74	2 000	4.35	55	66	24	40 190	23	26.93
1970 ASM----	8 250	19 819	72	2 000	3.87	55	65	24	36 388	22	25.19
1969 ASM----	8 272	18 532	73	2 107	3.33	55	65	23	35 779	23	23.34
1968 ASM----	7 986	17 932	72	2 092	3.21	58	69	24	31 054	25	20.33
1967 Census--	7 333	17 453	73	2 054	3.13	57	67	23	31 080	23	20.62
1966 ASM----	7 054	(NA)	69	2 039	3.04	59	69	(NA)	28 178	25	19.77
1965 ASM----	6 902	(NA)	69	2 080	2.96	58	68	(NA)	28 527	24	19.75
1964 ASM----	6 421	14 605	64	2 102	2.73	57	66	21	28 276	22	20.86
1963 Census--	6 305	14 902	70	2 098	2.56	58	69	24	24 694	25	16.61

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2046, WET CORN MILLING											
1977 Census--	17 507	(NA)	71	2 015	8.42	66	75	(NA)	61 066	28	42.49
1976 ASM----	16 345	108 436	72	2 062	7.64	67	76	59	59 109	27	39.40
1975 ASM----	14 944	97 972	72	2 088	6.83	59	67	49	80 082	18	52.90
1974 ASM----	13 639	86 315	69	2 064	5.81	64	72	51	60 666	22	42.35
1973 ASM----	12 282	78 452	70	2 073	5.53	68	81	81	30 743	39	21.15
1972 Census--	11 380	70 867	69	2 035	5.18	59	76	103	27 371	41	19.36
1971 ASM----	10 307	60 392	69	2 000	4.81	58	75	97	25 261	40	18.24
1970 ASM----	10 659	56 674	68	2 139	4.48	55	72	92	27 666	38	18.76
1969 ASM----	9 614	54 851	69	2 138	4.08	52	68	89	29 325	32	19.89
1968 ASM----	8 517	48 957	70	2 040	3.88	50	66	88	27 148	31	18.95
1967 Census--	8 234	46 872	69	2 071	3.70	53	68	87	25 078	32	17.41
1966 ASM----	7 669	(NA)	71	2 121	3.50	55	69	(NA)	24 935	30	16.50
1965 ASM----	7 627	(NA)	72	2 193	3.44	56	70	(NA)	23 465	32	14.83
1964 ASM----	7 624	41 832	73	2 141	3.35	54	69	83	23 344	32	14.81
1963 Census--	6 795	37 068	74	2 132	3.12	53	68	78	22 037	30	13.91
INDUSTRY 2047, DOG, CAT, AND OTHER PET FOOD											
1977 Census--	13 904	(NA)	75	2 067	6.15	54	62	(NA)	78 880	17	50.32
1976 ASM----	12 975	43 335	75	2 154	5.55	57	65	26	69 335	18	42.90
1975 ASM----	11 736	42 466	75	2 138	5.13	59	67	29	57 981	20	35.93
1974 ASM----	10 767	39 264	76	2 090	4.74	60	69	30	51 993	20	32.41
1973 ASM----	10 230	32 551	77	2 256	4.15	63	71	26	47 083	21	28.90
1972 Census--	9 447	28 090	76	2 181	4.01	56	66	28	42 923	22	25.57
INDUSTRY 2048, PREPARED FEEDS, N.E.C.											
1977 Census--	11 862	(NA)	59	2 071	4.97	82	87	(NA)	39 542	29	32.07
1976 ASM----	10 536	26 872	61	2 156	4.13	80	85	14	38 317	27	28.98
1975 ASM----	9 615	25 511	61	2 140	3.80	80	86	14	32 497	29	24.50
1974 ASM----	9 094	23 380	61	2 142	3.67	81	87	13	32 410	28	24.67
1973 ASM----	8 573	23 707	61	2 294	3.32	81	86	14	31 895	26	22.70
1972 Census--	7 738	22 372	62	2 187	3.11	78	85	19	25 011	30	18.16

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2041, FLOUR AND OTHER GRAIN MILL PRODUCTS														
United States	-	**407**	**173**	**15.6**	**222.3**	**11.3**	**24.6**	**153.4**	**824.5**	**2 854.2**	**3 683.3**	**52.4**	**16.1**	**509.8**
Middle Atlantic Division:														
New York	-	15	9	1.1	19.5	0.9	1.9	15.0	58.4	240.6	299.8	1.6	0.9	30.1
Pennsylvania	E4	36	4	0.3	4.6	0.3	0.5	2.9	12.6	65.9	78.5	0.3	(NA)	(D)
East North Central Division:														
Ohio	-	12	6	0.4	5.7	0.3	0.6	4.0	17.9	93.5	111.7	1.4	0.4	6.5
Indiana	-	16	7	0.5	7.5	0.4	0.9	4.8	23.2	79.7	101.3	2.9	(NA)	(D)
Illinois	-	17	9	1.5	22.4	1.1	2.2	16.5	84.4	233.7	318.3	5.2	1.7	53.0
Michigan	-	15	7	0.6	9.6	0.4	0.9	5.8	52.1	70.3	123.8	0.8	(NA)	(D)
Wisconsin	E1	10	4	0.5	6.7	0.3	0.6	3.8	26.1	73.1	99.3	3.1	(NA)	(D)
West North Central Division:														
Minnesota	-	22	15	1.1	17.3	0.9	1.9	13.0	61.1	256.1	318.4	8.6	1.0	34.6
Iowa	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Missouri	-	12	9	1.2	17.7	0.8	1.8	11.5	79.4	240.3	320.1	1.8	1.1	37.7
Nebraska	-	6	5	0.4	6.3	0.4	0.8	5.3	26.5	112.8	139.6	(D)	0.5	22.7
Kansas	-	26	21	1.6	21.7	1.1	2.6	15.3	73.6	311.7	386.9	8.9	1.4	52.6
South Atlantic Division:														
Virginia	E1	18	4	0.2	2.5	0.2	0.3	1.8	16.2	52.1	68.4	0.1	(NA)	(D)
North Carolina	E1	30	8	0.6	6.2	0.4	0.9	4.1	16.6	74.1	90.5	1.4	(NA)	(D)
Georgia	E3	18	3	0.2	2.5	0.1	0.3	1.2	4.8	20.5	25.2	0.1	(NA)	(D)
East South Central Division:														
Kentucky	E3	11	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Tennessee	-	22	10	0.9	10.7	0.6	1.4	6.9	62.6	152.8	218.6	3.1	1.2	42.3
West South Central Division:														
Oklahoma	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Texas	-	16	6	0.7	7.6	0.6	1.2	5.0	25.7	82.7	108.6	(D)	0.9	24.6
Mountain Division:														
Montana	-	3	3	0.2	2.2	0.1	0.3	1.6	11.5	26.8	38.6	(D)	0.2	8.0
Colorado	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Utah	E1	13	3	0.3	4.7	0.2	0.5	3.3	15.6	61.5	76.9	(D)	(NA)	(D)
Pacific Division:														
Washington	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Oregon	-	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	7.2
California	-	15	8	0.8	12.8	0.6	1.4	8.6	41.7	177.0	218.6	2.3	0.6	25.9
INDUSTRY 2043, CEREAL BREAKFAST FOODS														
United States	-	**46**	**35**	**16.4**	**287.4**	**13.8**	**26.8**	**230.0**	**1 447.0**	**1 061.2**	**2 497.5**	**79.8**	**12.9**	**688.4**
Middle Atlantic Division:														
New York	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pennsylvania	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
East North Central Division:														
Ohio	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois	-	5	5	2.2	36.8	1.8	4.0	28.8	162.8	147.0	308.0	10.7	(NA)	(D)
Michigan	-	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West North Central Division:														
Minnesota	-	6	5	0.4	5.2	0.4	0.7	4.3	35.7	26.0	62.6	(D)	(NA)	(D)
Iowa	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Missouri	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Nebraska	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
East South Central Division:														
Tennessee	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
California	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
INDUSTRY 2044, RICE MILLING														
United States	-	**59**	**39**	**4.8**	**61.4**	**4.0**	**8.4**	**40.7**	**341.0**	**948.6**	**1 263.4**	**40.0**	**4.0**	**140.3**
West South Central Division:														
Arkansas	-	9	9	1.3	12.9	1.2	2.9	10.7	58.6	293.4	353.9	(D)	(NA)	(D)
Louisiana	-	19	12	0.9	8.7	0.8	1.6	5.8	60.0	128.8	183.1	2.0	(NA)	(D)
Texas	-	10	8	1.6	25.9	1.2	2.4	13.7	132.2	347.2	477.1	10.5	1.3	76.8
Pacific Division:														
California	-	12	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	24.7

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2045, BLENDED AND PREPARED FLOUR													
United States	-	**137**	**60**	**8.4**	**104.5**	**5.8**	**12.1**	**68.0**	**406.7**	**608.3**	**1 011.7**	**17.6**	**7.9**	**306.8**
Middle Atlantic Division:													
New York	-	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	16.8
New Jersey	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pennsylvania	-	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
East North Central Division:														
Ohio	-	9	4	0.6	10.2	0.5	1.0	7.7	54.2	58.5	112.3	(D)	(NA)	(D)
Indiana	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Illinois	E1	16	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	27.2
Wisconsin	E1	7	2	0.2	2.0	0.1	0.2	0.8	4.9	9.6	14.5	0.1	(NA)	(NA)
South Atlantic Division:														
North Carolina	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Georgia	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:														
Texas	-	9	5	0.8	9.8	0.5	1.0	6.3	40.6	48.1	88.5	1.3	(NA)	(D)
Pacific Division:														
Washington	-	8	2	0.2	2.8	0.1	0.3	1.7	9.0	20.4	29.4	0.5	(NA)	(D)
California	E1	19	8	0.6	8.6	0.4	0.9	5.6	30.9	46.5	77.5	1.6	0.9	73.1
INDUSTRY 2046, WET CORN MILLING														
United States	-	**39**	**27**	**10.9**	**191.1**	**7.8**	**15.7**	**132.2**	**666.7**	**1 338.0**	**2 014.8**	**232.2**	**12.1**	**331.2**
Middle Atlantic Division:														
Pennsylvania	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
East North Central Division:														
Ohio	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Indiana	-	4	4	1.6	30.0	1.2	2.6	21.9	112.0	194.1	302.0	(D)	(NA)	(D)
Illinois	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West North Central Division:														
Iowa	-	7	7	3.5	61.9	2.1	4.2	36.1	198.5	474.6	673.4	39.8	(NA)	(D)
Missouri	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:														
Texas	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
INDUSTRY 2047, DOG, CAT, AND OTHER PET FOOD														
United States	-	**290**	**132**	**17.7**	**245.5**	**13.4**	**27.7**	**170.3**	**1 392.9**	**1 697.2**	**3 086.7**	**67.2**	**14.3**	**513.6**
Middle Atlantic Division:														
New York	-	14	8	1.1	15.0	0.9	1.8	11.5	115.9	73.6	188.8	3.6	(NA)	(D)
New Jersey	E1	8	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	6.5
Pennsylvania	-	19	9	1.4	19.9	0.9	2.0	11.6	105.9	153.7	259.6	4.1	(NA)	(D)
East North Central Division:														
Ohio	-	14	8	1.3	20.7	1.1	2.3	15.9	104.3	137.4	241.8	(D)	1.2	54.5
Indiana	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois	-	18	10	2.3	36.7	1.7	3.6	24.4	187.3	193.4	380.5	(D)	2.6	125.8
Wisconsin	-	19	7	0.6	5.4	0.4	0.8	4.2	51.3	58.0	110.0	0.9	(NA)	(D)
West North Central Division:														
Minnesota	-	10	4	0.3	3.9	0.3	0.6	2.7	15.4	19.3	34.3	0.8	(NA)	(NA)
Iowa	-	10	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Missouri	-	10	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Nebraska	-	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Kansas	-	8	5	0.7	9.8	0.5	1.1	7.0	50.4	65.2	114.8	1.5	(NA)	(D)
South Atlantic Division:														
North Carolina	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
East South Central Division:														
Tennessee	-	7	6	0.3	3.5	0.2	0.5	2.5	13.4	60.1	73.2	1.2	(NA)	(NA)
Alabama	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Mississippi	-	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:														
Oklahoma	-	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Texas	-	11	5	0.6	5.0	0.5	1.0	3.4	12.0	32.8	44.9	(D)	(NA)	(D)
Mountain Division:														
Colorado	-	10	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	9.3
Arizona	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nevada	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Oregon	-	7	4	0.3	4.6	0.2	0.4	2.7	19.0	32.2	51.8	(D)	(NA)	(D)
California	-	28	10	1.4	22.5	1.0	2.1	14.8	69.9	127.7	198.6	2.6	1.7	76.2

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2048, PREPARED FEEDS, N.E.C.														
United States	-	**2 063**	**610**	**39.1**	**463.4**	**23.2**	**48.2**	**239.6**	**1 544.7**	**7 242.7**	**8 786.6**	**130.9**	**44.0**	**1 100.5**
New England Division:														
Maine	-	10	2	0.2	1.4	0.1	0.2	0.8	3.7	55.9	59.9	0.2	(NA)	(D)
Vermont	-	8	4	0.3	3.7	0.2	0.5	2.7	9.8	74.1	85.1	(D)	0.4	9.8
Middle Atlantic Division:														
New York	-	59	13	0.9	10.6	0.6	1.2	6.1	33.7	186.5	220.1	1.6	1.3	23.4
New Jersey	E1	16	4	0.3	3.8	0.2	0.4	2.5	14.4	41.9	56.3	0.4	0.7	7.4
Pennsylvania	-	86	16	1.3	15.2	0.7	1.5	7.6	48.9	285.2	334.0	(D)	1.6	41.4
East North Central Division:														
Ohio	-	55	17	1.2	15.2	0.7	1.6	8.9	39.4	186.4	225.5	2.0	1.1	32.1
Indiana	-	51	20	0.9	11.7	0.5	0.9	5.3	42.9	190.0	232.9	(D)	1.7	56.8
Illinois	-	86	31	2.2	27.8	1.5	3.0	17.0	177.7	436.0	614.4	7.1	2.8	111.0
Michigan	-	27	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	9.3
Wisconsin	-	65	13	0.9	11.6	0.5	1.0	5.4	42.5	157.9	200.0	1.3	1.0	35.9
West North Central Division:														
Minnesota	-	69	19	1.3	17.1	0.6	1.3	7.5	42.5	193.8	236.9	1.8	1.5	38.2
Iowa	-	149	55	3.8	50.8	1.5	3.2	17.5	167.6	492.3	659.3	7.5	3.7	97.2
Missouri	-	77	23	1.9	22.2	1.2	2.5	12.1	92.9	336.0	428.4	8.6	2.1	50.8
North Dakota	E1	13	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Dakota	-	23	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Nebraska	-	133	33	2.3	26.8	1.5	3.2	15.3	104.3	265.6	368.4	9.8	2.3	55.7
Kansas	-	73	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	26.3
South Atlantic Division:														
Maryland	-	14	5	0.7	7.2	0.4	0.8	3.5	31.0	195.5	226.1	(D)	(NA)	(D)
Virginia	-	33	12	0.7	7.0	0.5	0.9	3.9	25.9	164.8	190.6	2.1	0.7	13.9
North Carolina	-	92	23	1.4	15.2	0.9	1.7	8.1	45.0	377.8	423.5	7.3	1.5	38.0
South Carolina	-	20	5	0.3	2.9	0.2	0.4	1.6	7.6	46.7	55.0	(D)	0.4	7.4
Georgia	-	74	27	1.4	16.4	0.9	2.0	9.1	63.3	467.9	530.9	3.2	1.7	45.1
Florida	-	41	12	0.8	9.2	0.4	0.9	3.9	16.6	150.2	166.7	2.9	0.9	15.7
East South Central Division:														
Kentucky	E1	24	6	0.4	4.6	0.2	0.4	2.4	25.2	57.4	82.2	(D)	0.5	8.0
Tennessee	E1	39	15	1.0	10.4	0.6	1.3	5.7	30.3	179.5	209.4	3.2	(NA)	(D)
Alabama	-	62	18	1.0	11.2	0.6	1.2	5.4	32.3	247.1	279.5	(D)	(NA)	(D)
Mississippi	-	42	14	0.7	5.8	0.6	1.0	3.6	25.0	138.4	162.2	1.3	0.7	11.0
West South Central Division:														
Arkansas	-	52	19	1.0	10.0	0.7	1.4	5.7	38.4	347.1	385.4	(D)	1.3	34.3
Louisiana	-	25	10	0.4	4.5	0.3	0.6	2.6	16.1	88.7	104.1	(D)	0.6	11.1
Oklahoma	-	41	15	0.9	9.5	0.5	1.1	4.8	22.4	146.8	169.8	1.4	0.9	16.5
Texas	-	153	50	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	74.3
Mountain Division:														
Montana	-	21	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Idaho	-	14	3	0.3	3.1	0.1	0.3	1.5	8.2	30.1	38.2	(D)	0.3	6.1
Colorado	E1	48	11	0.6	7.7	0.4	0.8	4.1	22.2	91.7	114.2	1.9	0.6	10.3
New Mexico	-	15	3	0.2	2.2	0.1	0.3	1.2	7.1	31.9	38.5	(D)	(NA)	(D)
Arizona	-	15	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Utah	E3	12	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	-	30	8	0.5	5.9	0.3	0.6	3.7	17.1	87.7	104.3	0.6	0.5	20.2
Oregon	-	30	8	0.4	5.5	0.3	0.5	2.8	14.5	58.6	73.2	0.7	(NA)	(D)
California	-	134	43	2.5	36.5	1.5	3.5	19.6	80.4	490.1	571.2	7.7	2.8	66.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Flour and other grain mill products (SIC 2041)	Cereal breakfast foods (SIC 2043)	Rice milling (SIC 2044)	Blended and prepared flour (SIC 2045)	Wet corn milling (SIC 2046)	Dog, cat, and other pet food (SIC 2047)	Prepared feeds, n.e.c. (SIC 2048)
Primary product specialization ratio[1]	percent	98	74	100	94	94	92	96
Coverage ratio[2]	do	71	93	96	75	93	88	95
All establishments	number	407	48	59	137	39	290	2 063
With 1 to 19 employees	do	234	13	20	77	12	158	1 453
With 20 to 99 employees	do	126	15	24	38	7	88	577
With 100 employees or more	do	47	20	15	22	20	44	33
All employees, average for year	1,000	15.6	16.4	4.8	8.4	10.9	17.7	39.1
Payroll for year, all employees	mil. dol.	222.3	287.4	61.4	104.5	181.1	245.5	463.4
Production workers:								
Average for year	1,000	11.3	13.8	4.0	5.8	7.8	13.4	23.2
March	do	11.3	13.4	3.7	5.6	7.8	13.6	23.0
May	do	11.2	13.5	3.8	5.6	7.9	13.1	23.5
August	do	11.4	14.5	4.2	5.9	7.8	13.3	23.5
November	do	11.4	13.8	4.2	5.8	7.7	13.5	22.8
Hours	millions	24.6	28.8	8.4	12.1	15.7	27.7	48.2
January to March	do	6.1	7.1	2.0	3.0	3.9	7.1	11.8
April to June	do	6.0	7.2	1.9	3.0	4.0	6.6	11.9
July to September	do	6.2	7.4	2.2	3.0	3.8	6.9	12.3
October to December	do	6.3	7.2	2.3	3.1	3.9	7.1	12.2
Wages	mil. dol.	153.4	230.0	40.7	68.0	132.2	170.3	239.6
Cost of materials, etc.	do	2 854.2	1 061.2	948.6	606.3	1 338.0	1 697.2	7 242.7
Materials, parts, containers, etc., consumed	do	2 707.4	901.4	874.0	550.9	1 138.7	1 495.7	6 697.6
Resales	do	100.6	128.2	60.9	48.7	43.3	159.4	457.9
Fuels consumed	do	8.0	16.6	5.6	1.9	115.8	19.7	36.2
Purchased electric energy	do	38.0	14.4	7.1	4.4	37.5	20.2	43.1
Contract work	do	0.1	0.5	1.0	0.3	2.6	2.1	5.7
Value of shipments, including resales	do	3 683.3	2 497.5	1 263.4	1 011.7	2 014.8	3 086.7	8 786.8
Value of resales	do	138.7	188.3	60.4	59.0	81.1	170.4	494.3
Value added by manufacture	do	824.5	1 447.0	341.0	408.7	666.7	1 392.9	1 544.7
Manufacturers' inventories:								
Beginning of year	do	297.8	150.3	329.4	72.3	169.8	193.8	461.0
Finished products	do	61.2	64.2	57.4	40.4	62.4	81.2	166.6
Work in process	do	15.2	6.1	11.4	1.4	14.2	4.2	31.0
Materials, supplies, fuel, etc.	do	221.4	80.1	260.7	30.4	93.1	108.5	263.5
End of year	do	263.2	152.1	411.4	80.6	158.4	200.7	448.2
Finished products	do	54.2	71.5	77.8	43.5	56.2	86.1	170.1
Work in process	do	17.6	9.5	17.2	1.7	10.2	2.6	28.1
Materials, supplies, fuel, etc.	do	191.3	71.2	316.4	35.4	91.9	112.0	250.0
Capital expenditures for plant and equipment	do	54.2	80.8	41.1	18.5	232.4	68.2	141.6
New capital expenditures	do	52.4	79.8	40.0	17.6	232.2	67.2	130.9
New buildings and other structures	do	15.2	10.8	11.5	5.8	34.2	13.4	35.3
New machinery and equipment	do	37.2	69.0	28.5	11.8	198.0	53.7	95.6
Used capital expenditures	do	1.9	1.0	1.1	0.9	0.2	1.0	10.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Flour and other grain mill products (SIC 2041)		Cereal breakfast foods (SIC 2043)		Rice milling (SIC 2044)		Blended and prepared flour (SIC 2045)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	5.9	4	6.6	10	(0.9)	31	(0.8)	16
Response coverage ratio[2] (percent)	65.9	(X)	82.4	(X)	61.6	(X)	71.0	(X)
Machinery	16.3	8	(23.8)	20	6.8	3	3.1	11
Response coverage ratio[2] (percent)	61.3	(X)	82.1	(X)	64.8	(X)	68.2	(X)
Cost of purchased communication services	(3.5)	32	(1.0)	46	1.0	7	(1.2)	23
Response coverage ratio[2] (percent)	68.6	(X)	68.5	(X)	59.4	(X)	72.4	(X)
Rental payments	9.6	7	(2.4)	29	2.8	3	5.1	7
Buildings and other structures	0.9	11	(1.6)	42	(0.4)	15	(2.0)	22
Machinery and equipment	8.7	3	.7	1	2.3	2	3.1	7
Supplemental labor costs	46.4	1	74.8	2	13.2	1	21.0	4
Legal costs	19.3	2	21.3	1	5.4	3	8.2	4
Voluntary costs	27.1	2	53.5	2	7.8	3	12.9	4
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	223.4	2	184.8	2	75.5	5	63.2	10
New capital expenditures	(16.2)	32	11.6	10	11.7	3	5.8	7
Used capital expenditures	(0.1)	31	0.5	1	(3.7)	93	-	(X)
Retirements	1.9	6	11.2	1	1.8	3	1.8	6
End of year	237.8	3	185.7	2	88.9	8	67.2	9
Machinery and equipment:								
Beginning of year	365.7	2	452.0	1	101.0	6	113.4	5
New capital expenditures	36.4	10	70.7	2	29.1	2	11.1	7
Automobiles, trucks, etc., for highway use[3]	(2.3)	(A)	(0.1)	(A)	(0.4)	(A)	(1.0)	(A)
Computers and peripheral data processing equipment[3]	(0.1)	(A)	(0.5)	(A)	(0.7)	(A)	(0.1)	(A)
All other[3]	(28.3)	(A)	(69.7)	(A)	(26.5)	(A)	(8.5)	(A)
New machinery and equipment, n.s.k.[4]	(5.7)	(A)	(0.3)	(A)	(1.5)	(A)	(1.5)	(A)
Used capital expenditures	1.9	5	0.5	1	0.6	2	0.3	1
Retirements	8.2	4	13.7	3	2.9	6	(7.1)	25
End of year	395.9	2	509.5	1	127.9	5	117.7	5
Total gross value of depreciable assets:								
Beginning of year	589.1	2	636.8	1	176.5	5	176.6	6
New capital expenditures	(52.6)	17	82.3	3	40.8	3	16.9	6
Used capital expenditures	2.0	5	1.0	1	(4.3)	80	0.3	1
Retirements	10.1	4	24.9	2	4.7	4	(8.9)	19
End of year	633.7	2	695.2	1	216.8	6	184.9	6
Depreciation charges during 1977	31.9	10	33.8	1	10.0	6	11.5	7
Buildings and other structures	8.3	8	5.4	1	3.0	8	3.4	10
Machinery and equipment	23.5	10	28.4	1	7.0	5	8.1	6

See footnotes at end of table.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977—Con.

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Wet corn milling (SIC 2046)		Dog, cat, and other pet food (SIC 2047)		Prepared feeds, n.e.c. (SIC 2048)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	5.6	1	4.7	2	98.5	2
Response coverage ratio[2] (percent)	70.9	(X)	61.2	(X)	72.6	(X)
Machinery	14.0	9	23.8	5	218.7	3
Response coverage ratio[2] (percent)	88.9	(X)	61.8	(X)	70.1	(X)
Cost of purchased communication services	2.7	3	3.7	10	51.7	5
Response coverage ratio[2] (percent)	63.0	(X)	64.8	(X)	75.4	(X)
Rental payments	26.5	1	(9.3)	20	18.7	13
Buildings and other structures	0.4	5	2.7	13	4.7	7
Machinery and equipment	26.1	1	(6.6)	25	(14.0)	16
Supplemental labor costs	50.0	1	45.6	2	74.3	3
Legal costs	14.5	1	20.9	3	38.3	3
Voluntary costs	35.5	1	24.7	2	36.0	4
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning or year	255.1	1	252.3	3	359.2	3
New capital expenditures	34.4	3	14.4	10	41.3	14
Used capital expenditures	-	(X)	0.1	1	2.6	2
Retirements	5.5	1	(7.8)	15	10.2	8
End of year	284.0	1	259.1	3	392.9	3
Machinery and equipment:						
Beginning of year	963.8	1	502.9	3	702.7	3
New capital expenditures	199.7	4	55.7	4	99.5	8
Automobiles, trucks, etc., for highway use[3]	(0.2)	(A)	(5.5)	(A)	(16.2)	(A)
Computers and peripheral data processing equipment[3]	-	(X)	(Z)	(A)	(0.9)	(A)
All other[3]	(183.0)	(A)	(46.7)	(A)	(57.2)	(A)
New machinery and equipment, n.s.k.[4]	(16.5)	(A)	(3.6)	(A)	(25.2)	(A)
Used capital expenditures	0.2	1	(0.9)	35	8.5	9
Retirements	22.7	1	21.6	9	27.2	4
End of year	1,140.9	1	537.9	3	783.5	3
Total gross value of depreciable assets:						
Beginning of year	1,218.8	1	755.2	3	1,061.9	1
New capital expenditures	234.1	4	70.1	5	140.8	9
Used capital expenditures	0.2	1	(1.1)	30	11.1	7
Retirements	28.2	1	29.4	10	37.4	4
End of year	1,424.9	1	796.9	3	1,176.4	2
Depreciation charges during 1977	59.2	1	53.9	3	85.6	5
Buildings and other structures	7.5	1	10.4	5	21.3	5
Machinery and equipment	51.7	1	43.4	4	64.3	5

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

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Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2041, FLOUR AND OTHER GRAIN MILL PRODUCTS												
Total	-	407	15.6	222.3	11.3	24.6	153.4	824.5	2 854.2	3 683.3	52.4	263.2
Establishments with an average of—												
1 to 4 employees	E8	141	0.2	2.8	0.2	0.3	1.9	8.8	37.9	46.6	0.1	3.4
5 to 9 employees	E8	44	0.3	3.5	0.2	0.4	2.4	11.0	41.2	52.2	0.2	3.7
10 to 19 employees	E4	49	0.7	8.6	0.5	1.1	5.9	25.3	104.4	129.6	1.5	8.6
20 to 49 employees	-	67	2.3	31.9	1.7	3.6	22.6	134.5	527.8	663.0	8.2	46.8
50 to 99 employees	-	59	4.0	55.6	2.8	6.2	36.7	195.6	791.5	986.5	17.0	73.3
100 to 249 employees	-	42	6.4	94.8	4.7	10.4	65.7	353.1	1 126.3	1 485.0	21.1	105.1
250 to 499 employees	-	4	(1.7)	(24.9)	(1.2)	(2.6)	(18.1)	(96.3)	(225.1)	(320.3)	(4.3)	(21.2)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	166	0.6	7.0	0.4	0.8	4.8	19.6	86.2	105.8	0.3	7.7
INDUSTRY 2043, CEREAL BREAKFAST FOODS												
Total	-	48	16.4	287.4	13.8	28.8	230.0	1 447.0	1 061.2	2 497.5	79.8	152.1
Establishments with an average of—												
1 to 4 employees	E8	12	(Z)	(0.5)	(Z)	(Z)	(0.4)	(2.5)	(1.6)	(4.1)	(0.1)	(0.3)
10 to 19 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	-	10	0.3	4.1	0.2	0.5	2.5	20.5	25.2	46.1	(25.0)	3.0
50 to 99 employees	-	5	(0.7)	(8.7)	(0.6)	(1.2)	(6.9)	(34.3)	(23.1)	(57.7)	(D)	(6.3)
100 to 249 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	-	6	2.1	33.0	1.7	3.6	24.9	190.8	162.5	350.8	10.7	21.5
500 to 999 employees	-	9	(13.2)	(241.1)	(11.2)	(23.6)	(195.3)	(1 198.9)	(848.7)	(2 038.8)	(43.9)	(121.1)
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	10	(Z)	0.3	(Z)	(Z)	0.3	1.6	1.2	2.8	0.1	0.2
INDUSTRY 2044, RICE MILLING												
Total	-	59	4.8	61.4	4.0	8.4	40.7	341.0	948.6	1 263.4	40.0	411.4
Establishments with an average of—												
1 to 4 employees	E9	12	(Z)	0.2	(Z)	(Z)	0.1	0.6	2.3	3.0	0.1	0.9
5 to 9 employees	E6	6	(0.1)	(0.9)	(0.1)	(0.1)	(0.7)	(2.0)	(8.0)	(10.6)	(0.4)	(2.8)
10 to 19 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	-	12	0.3	3.7	0.3	0.5	2.5	13.3	53.9	66.5	0.5	17.2
50 to 99 employees	-	12	0.9	8.4	0.7	1.4	5.8	42.2	134.8	174.1	1.6	38.8
100 to 249 employees	-	10	1.6	18.2	1.3	3.0	13.0	127.8	348.8	463.2	27.4	146.9
250 to 499 employees	-	3	(1.9)	(30.0)	(1.6)	(3.4)	(18.7)	(155.1)	(400.8)	(545.9)	(9.9)	(206.8)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	12	(Z)	0.5	(Z)	0.1	0.3	2.4	7.6	9.9	0.2	2.8
INDUSTRY 2045, BLENDED AND PREPARED FLOUR												
Total	-	137	8.4	104.5	5.8	12.1	68.0	408.7	606.3	1 011.7	17.8	80.6
Establishments with an average of—												
1 to 4 employees	E8	36	0.1	0.7	0.1	0.1	0.5	2.7	4.0	6.6	0.1	0.5
5 to 9 employees	E4	23	0.2	2.0	0.1	0.2	1.3	15.5	9.6	25.1	0.2	1.4
10 to 19 employees	E3	18	0.3	3.0	0.2	0.3	1.8	10.5	17.5	28.0	0.4	2.0
20 to 49 employees	-	16	0.6	7.3	0.4	0.8	4.0	24.5	41.9	66.3	0.7	5.4
50 to 99 employees	-	22	1.6	20.4	1.1	2.0	11.7	60.6	143.6	204.7	3.2	14.2
100 to 249 employees	-	16	2.6	39.0	1.8	3.9	23.2	151.5	228.8	377.5	5.7	35.2
250 to 499 employees	-	4	(3.1)	(32.0)	(2.2)	(4.7)	(25.5)	(143.5)	(160.9)	(303.6)	(7.3)	(21.8)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	54	0.3	3.5	0.2	0.4	2.3	10.6	16.5	27.1	0.4	2.1
INDUSTRY 2046, WET CORN MILLING												
Total	-	39	10.9	191.1	7.8	15.7	132.2	666.7	1 338.0	2 014.8	232.2	158.4
Establishments with an average of—												
1 to 4 employees	-	3	(0.5)	(6.7)	(0.4)	(0.8)	(4.7)	(18.9)	(49.9)	(67.3)	(169.9)	(8.7)
5 to 9 employees	E5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E2	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	-	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	-	9	(2.6)	(46.6)	(1.7)	(3.6)	(30.7)	(222.6)	(497.1)	(717.7)	(D)	(49.9)
250 to 499 employees	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	-	5	3.6	62.3	2.5	5.0	42.8	155.1	349.5	507.1	27.2	47.2
1,000 to 2,499 employees	-	3	4.3	75.5	3.2	6.3	54.0	270.0	441.5	722.8	34.9	52.6
Covered by administrative records[2]	E0	4	(Z)	0.6	(Z)	0.1	0.4	2.1	4.3	6.4	0.5	0.5
INDUSTRY 2047, DOG, CAT, AND OTHER PET FOOD												
Total	-	290	17.7	245.5	13.4	27.7	170.3	1 392.9	1 697.2	3 086.7	57.2	200.7
Establishments with an average of—												
1 to 4 employees	E6	69	0.1	1.7	0.1	0.2	1.2	6.1	10.1	16.3	0.4	1.1
5 to 9 employees	E4	45	0.3	3.6	0.2	0.5	2.5	16.7	25.6	41.9	0.7	3.4
10 to 19 employees	E2	44	0.6	7.3	0.5	1.0	4.8	23.2	52.0	75.9	2.2	5.3
20 to 49 employees	-	47	1.5	16.3	1.2	2.3	10.7	52.1	119.2	171.1	3.7	11.3
50 to 99 employees	-	41	2.9	31.9	2.1	4.2	21.2	121.8	235.1	355.6	8.7	26.0
100 to 249 employees	-	27	4.6	60.4	3.4	7.2	40.9	310.1	480.5	791.6	11.5	54.0
250 to 499 employees	-	12	4.4	67.8	3.6	7.4	52.4	546.8	492.8	1 038.1	21.9	49.6
500 to 999 employees	-	5	3.2	56.5	2.3	4.8	36.7	316.2	282.0	596.2	17.9	50.1
Covered by administrative records[2]	E0	75	0.3	4.1	0.3	0.5	2.9	17.9	24.1	42.0	0.5	2.9

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2048, PREPARED FEEDS, N.E.C.												
Total	-	**2 063**	**39.1**	**463.4**	**23.2**	**48.2**	**239.5**	**1 544.7**	**7 242.7**	**8 786.8**	**130.9**	**448.2**
Establishments with an average of—												
1 to 4 employees	E5	617	1.1	12.7	0.8	1.4	6.7	42.9	186.8	230.0	3.2	12.0
5 to 9 employees	E1	342	2.4	26.3	1.5	3.1	14.3	80.7	447.7	528.9	8.8	25.5
10 to 19 employees	-	494	6.8	76.6	4.5	9.3	43.2	266.5	1 359.5	1 625.8	27.3	79.4
20 to 49 employees	-	434	13.2	154.6	8.1	16.9	82.7	503.4	2 712.1	3 214.0	49.9	146.8
50 to 99 employees	-	143	9.7	121.6	5.6	11.7	60.7	368.9	1 728.2	2 094.1	31.0	88.6
100 to 249 employees	-	27	3.5	38.6	1.9	4.1	20.0	128.5	491.5	622.0	6.8	36.5
250 to 499 employees	-	4	(2.3)	(32.9)	(0.9)	(1.7)	(12.1)	(153.8)	(316.8)	(472.0)	(3.8)	(59.4)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	452	0.9	10.3	0.7	1.1	5.2	32.6	138.2	170.8	2.2	9.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2041	**Flour and other grain mill products:**										
	Entire industry	407	15.6	222.3	11.3	24.6	153.4	824.5	2 854.2	3 683.3	52.4
	Establishments with 75 percent specialization or more	394	14.9	214.0	10.8	23.5	148.4	810.0	2 799.0	3 612.9	(D)
20411	Wheat flour, except flour mixes:										
	Establishments with this product class primary	155	10.9	156.9	7.9	17.3	109.0	563.4	2 210.9	2 776.0	37.0
	Establishments with 75 percent specialization or more in class	121	8.2	123.7	6.1	13.3	87.7	473.0	1 852.8	2 326.6	27.7
20412	Wheat mill products other than flour:										
	Establishments with this product class primary	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20413	Corn mill products:										
	Establishments with this product class primary	22	1.7	23.3	1.2	2.6	15.5	92.7	242.6	335.8	8.1
	Establishments with 75 percent specialization or more in class	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20415	Flour mixes and refrigerated doughs:										
	Establishments with this product class primary	9	1.2	19.1	0.9	2.1	14.0	100.5	162.8	264.7	3.2
	Establishments with 75 percent specialization or more in class	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20416	Other grain mill products, n.e.c.:										
	Establishments with this product class primary	9	0.6	8.8	0.5	1.0	5.5	21.0	54.2	75.2	1.7
	Establishments with 75 percent specialization or more in class	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2043	**Cereal breakfast foods:**										
	Entire industry	48	16.4	287.4	13.8	28.8	230.0	1 447.0	1 061.2	2 497.5	79.8
	Establishments with 75 percent specialization or more	35	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2044	**Rice milling:**										
	Entire industry	59	4.8	61.4	4.0	8.4	40.7	341.0	948.5	1 263.4	40.0
	Establishments with 75 percent specialization or more	56	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2045	**Blended and prepared flour:**										
	Entire industry	137	8.4	104.5	5.8	12.1	68.0	408.7	606.3	1 011.7	17.6
	Establishments with 75 percent specialization or more	122	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20455	Prepared flour mixes and refrigerated doughs:										
	Establishments with this product class primary	132	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	119	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2046	**Wet corn milling:**										
	Entire industry	39	10.9	191.1	7.8	15.7	132.2	666.7	1 338.0	2 014.8	232.2
	Establishments with 75 percent specialization or more	36	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2047	**Dog, cat, and other pet food:**										
	Entire industry	290	17.7	245.5	13.4	27.7	170.3	1 392.9	1 697.2	3 086.7	67.2
	Establishments with 75 percent specialization or more	256	15.2	212.0	11.5	23.7	147.2	1 207.8	1 463.5	2 668.4	55.3
20471	Dog and cat food:										
	Establishments with this product class primary	125	15.0	218.3	11.3	23.5	151.5	1 297.2	1 519.3	2 813.2	57.2
	Establishments with 75 percent specialization or more in class	111	13.0	190.1	9.8	20.3	132.1	1 128.9	1 343.6	2 469.7	(D)
20472	Other pet and specialty feeds:										
	Establishments with this product class primary	56	2.0	19.6	1.6	3.2	13.4	59.9	130.0	189.7	5.6
	Establishments with 75 percent specialization or more in class	36	1.3	11.5	1.0	2.0	7.8	38.8	55.0	93.7	(D)
2048	**Prepared feeds, n.e.c.:**										
	Entire industry	2 063	39.1	463.4	23.2	48.2	239.6	1 544.7	7 242.7	8 786.8	130.9
	Establishments with 75 percent specialization or more	1 983	36.9	437.6	22.0	45.5	226.0	1 474.0	6 937.2	8 408.7	(D)
20481	Poultry feeds, except duck and geese:										
	Establishments with this product class primary	272	8.4	98.9	5.0	10.7	51.4	351.5	2 783.5	3 131.4	27.1
	Establishments with 75 percent specialization or more in class	161	4.1	45.6	2.7	5.9	25.9	169.2	1 849.0	2 015.6	(D)
20482	Dairy cattle feeds, complete:										
	Establishments with this product class primary	205	6.5	75.9	4.2	8.6	44.3	200.8	1 170.7	1 374.2	28.4
	Establishments with 75 percent specialization or more in class	81	1.9	24.7	1.1	2.4	13.3	54.7	381.5	437.0	5.0
20483	Dairy cattle feed supplements and concentrates:										
	Establishments with this product class primary	39	1.1	13.9	0.5	1.1	6.3	41.8	154.8	196.2	2.9
	Establishments with 75 percent specialization or more in class	13	0.3	4.4	0.1	0.3	1.6	9.0	29.0	38.0	0.6
20484	Swine feeds, complete:										
	Establishments with this product class primary	80	1.8	20.6	1.0	1.9	10.1	51.9	240.2	293.8	4.6
	Establishments with 75 percent specialization or more in class	14	0.2	2.1	0.1	0.3	1.1	8.3	26.8	34.6	0.2
20485	Swine feed supplements and concentrates:										
	Establishments with this product class primary	179	6.7	87.8	3.4	6.9	38.4	400.3	1 130.6	1 533.0	21.1
	Establishments with 75 percent specialization or more in class	13	0.1	1.7	0.1	0.2	0.8	4.0	14.2	18.2	1.1
20486	Beef cattle feeds, complete:										
	Establishments with this product class primary	86	2.6	30.5	1.5	3.0	14.7	74.1	293.6	369.3	8.5
	Establishments with 75 percent specialization or more in class	39	0.6	7.1	0.4	0.8	3.4	18.3	68.9	87.9	2.8
20487	Beef cattle feed supplements and concentrates:										
	Establishments with this product class primary	103	2.6	31.3	1.4	3.2	15.8	127.4	399.3	525.0	11.3
	Establishments with 75 percent specialization or more in class	53	1.0	11.5	0.6	1.3	6.3	40.3	167.1	206.2	6.0
20488	Other poultry and livestock feeds:										
	Establishments with this product class primary	39	1.1	11.2	0.7	1.4	6.5	35.2	116.8	151.7	2.1
	Establishments with 75 percent specialization or more in class	16	0.3	3.3	0.2	0.3	1.6	10.6	43.7	53.8	0.5
20489	Other prepared animal feeds:										
	Establishments with this product class primary	183	2.7	31.0	2.0	4.2	19.3	62.2	196.5	257.2	6.5
	Establishments with 75 percent specialization or more in class	161	2.2	25.3	1.6	3.5	16.0	40.9	150.1	189.6	5.9

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.
[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2041 2045	Flour and other grain mill products[1] 1977	4,695.0	4,358.8	134.6	201.6	97	4,882.9	4,358.8	524.1	89
	1972	3,084.6	2,761.0	211.1	112.5	93	3,026.7	2,761.0	265.7	91
	1967	3,004.9	2,592.3	264.1	148.5	91	2,818.8	2,592.3	226.5	92
2041	Flour and other grain mill products 1977	3,683.3	3,461.0	81.1	141.2	98	4,882.9	3,461.0	1,421.9	71
	1972	2,380.0	2,244.9	57.9	77.2	97	3,026.7	2,244.9	781.8	74
	1967	2,457.4	2,187.5	153.2	116.7	93	2,818.8	2,187.5	631.3	78
2045	Blended and prepared flour 1977	1,011.7	897.8	53.5	60.4	94	1,204.3	897.8	306.5	75
	1972	704.6	516.1	153.2	35.3	77	796.1	516.1	280.0	65
	1967	547.5	404.8	110.9	31.8	78	644.9	404.8	240.1	63
2043	Cereal breakfast foods 1977	2,497.5	1,702.4	605.6	189.5	74	1,832.9	1,702.4	130.5	93
	1972	1,125.5	783.2	233.8	108.5	77	934.6	783.2	151.4	84
	1967	793.0	587.8	139.4	65.8	81	715.7	587.8	127.9	82
2044	Rice milling 1977	1,263.4	1,194.1	3.6	65.7	100	1,242.3	1,194.1	48.2	96
	1972	680.6	657.7	-	22.9	100	671.2	657.7	13.4	98
	1967	548.4	535.9	-	12.5	100	548.0	535.9	12.1	98
2046	Wet corn milling 1977	2,014.8	1,815.6	118.0	81.2	94	1,946.1	1,815.6	130.5	93
	1972	832.3	762.6	59.9	9.8	93	786.7	762.6	24.1	97
	1967	751.3	622.9	120.8	7.6	84	646.6	622.9	23.7	96
2047	Dog, cat, and other pet food 1977	3,086.7	2,692.5	218.6	175.6	92	3,071.0	2,692.5	378.5	88
	1972	1,401.9	1,264.1	87.8	50.0	94	1,451.1	1,264.1	187.0	87
	[2]1967	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2048	Prepared feeds, n.e.c. 1977	8,786.9	7,957.2	301.4	528.3	96	8,350.2	7,957.2	39.3	95
	1972	5,037.1	4,462.7	191.3	383.1	96	4,658.2	4,462.7	195.5	96
	[2]1967	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

- Represents zero. (NA) Not available. n.e.c. Not elsewhere classified.
[1]Combined because of similarity of products in these two industries.
[2]Comparable data for prior years not available.

Table 5c. Industry-Product Analysis—Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Flour and other grain mill products (SIC 2041)	Cereal breakfast foods (SIC 2043)	Rice milling (SIC 2044)	Blended and prepared flour (SIC 2045)	Wet corn milling (SIC 2046)	Dog, cat, and other pet food (SIC 2047)	Prepared feeds, n.e.c. (SIC 2048)	Other industries
	Total	(X)	3,683.3	2,497.5	1,263.4	1,011.7	2,014.8	3,086.7	8,786.9	(X)
	Primary products	(X)	3,461.0	1,702.4	1,194.1	897.8	1,815.6	2,692.5	7,957.2	(X)
	Secondary products	(X)	81.1	605.6	3.6	53.5	118.0	218.6	301.4	(X)
	Miscellaneous receipts	(X)	141.2	189.5	65.7	60.4	81.2	175.6	528.3	(X)
2041-	Flour and other grain mill products	3,678.6	3,461.0	(D)	-	(D)	(D)	13.1	(D)	(D)
20411	Wheat flour, except flour mixes	2,208.9	2,180.4	(D)	-	-	-	-	23.6	(D)
20412	Wheat mill products other than flour	455.4	442.7	(D)	-	(D)	(D)	-	(D)	(D)
20413	Corn mill products	413.3	264.2	(D)	-	(D)	-	(D)	(D)	(D)
20415	Flour mixes and refrigerated doughs	287.2	(D)	-	-	-	-	-	-	(D)
20416	Other grain mill products, n.e.c.	98.3	(D)	(D)	-	-	-	(D)	-	(D)
20410	Flour and other grain mill products, n.s.k.	215.5	215.3	(D)	-	-	-	-	(D)	-
20430	Cereal breakfast foods	1,832.9	6.5	1,702.4	-	(D)	-	(D)	(D)	61.1
20440	Milled rice and byproducts	1,242.3	-	-	1,194.1	-	(D)	-	-	(D)
20455	Prepared flour mixes and refrigerated doughs	1,204.3	-	(D)	-	897.8	-	-	-	(D)
20460	Wet corn milling	1,946.1	(D)	(D)	-	-	1,815.6	-	-	116.8
2047-	Dog, cat, and other pet food	3,071.0	(D)	(D)	-	-	-	2,692.5	162.4	211.6
20471	Dog and cat food	2,717.1	(D)	(D)	-	-	-	2,451.8	(D)	186.7
20472	Other pet and specialty feeds	268.1	(D)	-	-	-	-	156.2	(D)	23.9
20470	Dog, cat, and other pet food, n.s.k.	85.7	-	-	-	-	-	84.5	.1	1.1
2048-	Prepared feeds, n.e.c.	8,350.2	(D)	-	-	-	-	(D)	7,957.2	295.8
20481	Poultry feeds, except duck and geese	2,758.6	(D)	-	-	-	-	(D)	2,686.0	(D)
20482	Dairy cattle feeds, complete	1,145.6	(D)	-	-	-	-	(D)	1,105.6	28.3
20483	Dairy cattle feed supplements and concentrates	308.5	-	-	-	-	-	(D)	(D)	4.0
20484	Swine feeds, complete	575.8	(D)	-	-	-	-	10.6	561.0	(D)
20485	Swine feed supplements and concentrates	892.3	-	-	-	-	-	4.1	885.5	2.7
20486	Beef cattle feeds, complete	367.1	-	-	-	-	-	3.5	360.5	3.1
20487	Beef cattle feed supplements and concentrates	603.8	-	-	-	-	-	(D)	551.5	(D)
20488	Other poultry and livestock feeds	337.9	(D)	-	-	-	-	(D)	(D)	(D)
20489	Other prepared animal feeds	338.0	(D)	-	-	-	-	5.8	329.1	(D)
20480	Prepared feed, n.e.c., n.s.k.	1,034.2	(D)	-	-	-	-	(D)	888.4	103.5
	Other products by 4-digit product group:									
2011-	Meat packing plant products	(X)	-	-	-	-	-	(D)	(D)	(X)
2026-	Fluid milk	(X)	-	-	-	-	-	-	(D)	(X)
2032-	Canned specialties	(X)	-	(D)	-	(D)	-	-	-	(X)
2034-	Dehydrated fruits, vegetables, and soups	(X)	-	(D)	-	(D)	-	-	-	(X)
2035-	Pickles, sauces, and salad dressings	(X)	-	-	-	(D)	-	-	-	(X)
2051-	Bread, cake, and related products	(X)	-	-	-	(D)	-	(D)	-	(X)
2052-	Cookies and crackers	(X)	-	(D)	(D)	-	-	(D)	-	(X)
2062-	Refined cane sugar and byproducts	(X)	-	-	-	(D)	-	-	-	(X)
2065-	Confectionery products	(X)	-	-	-	-	-	(D)	-	(X)
2075-	Soybean oil mill products	(X)	(D)	-	-	(D)	-	-	(D)	(X)
2077-	Animal and marine fats and oils	(X)	-	-	-	-	-	(D)	(D)	(X)
2085-	Distilled liquor, except brandy	(X)	-	-	-	-	(D)	-	(D)	(X)
2087-	Flavoring extracts and sirups, n.e.c.	(X)	-	(D)	-	(D)	-	(D)	-	(X)
2098-	Macaroni and spaghetti	(X)	-	(D)	-	-	-	-	-	(X)
2099-	Food preparations, n.e.c.	(X)	(D)	(D)	(D)	22.0	(D)	(D)	(D)	(X)
2819-	Industrial inorganic chemicals, n.e.c.	(X)	-	-	-	-	-	-	(D)	(X)
2833-	Medicinals and botanicals	(X)	-	-	-	(D)	(D)	-	(D)	(X)
2834-	Pharmaceutical preparations	(X)	-	-	-	-	-	(D)	(D)	(X)
2842-	Polishes and sanitation goods	(X)	-	-	-	-	(D)	(D)	-	(X)
2843-	Surface active agents	(X)	-	-	-	-	(D)	-	-	(X)
2869-	Industrial organic chemicals, n.e.c.	(X)	-	-	-	(D)	(D)	-	-	(X)
2875-	Fertilizers, mixing only	(X)	-	-	-	-	-	-	(D)	(X)
2891-	Adhesives and sealants	(X)	-	-	-	-	(D)	-	-	(X)
3411-	Metal cans	(X)	-	-	-	-	-	(D)	-	(X)
3523-	Farm machinery and equipment	(X)	-	-	-	-	-	-	(D)	(X)
	Miscellaneous receipts:									
93000 00	Contract work	(X)	(D)	(D)	(D)	(D)	(D)	(D)	14.3	(X)
99980 98	Other miscellaneous receipts	(X)	(D)	(D)	(D)	(D)	(D)	(D)	19.2	(X)
99989 00	Resales	(X)	138.7	188.3	60.4	59.0	81.1	170.4	494.3	(X)

See footnotes at end of table.

Table 5c. **Industry-Product Analysis — Shipments by Product Class and Industry: 1977** - Con.

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Industry, and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2041-	2075 Soybean oil mills	(D)
	2087 Flavoring extracts and syrups, n.e.c.	(D)
2043-	2032 Canned specialties	(D)
	2034 Dehydrated fruits, vegetables, and soups	(D)
	2052 Cookies and crackers	(D)
2044-	2095 Roasted coffee	(D)
	2099 Food preparations, n.e.c.	(D)
2045	2087 Flavoring extractor and syrups, n.e.c.	(D)
	2099 Food preparations, n.e.c.	(D)
2046-	2075 Soybean oil mills	(D)
	2079 Shortening and cooking oils	(D)
	2085 Distilled liquor, except brand	(D)
2046-	2099- Food preparations, n.e.c.	(D)
	2891 Adhesives and sealants	(D)
2047-	2047 Meatpacking plants	23.1
	2035 Pickles, sauces, and salad dressings	(D)
	2091 Canned and cured seafood	155.2
	2879 Agricultural chemicals, n.e.c.	(D)
2048-	2016 Poultry dressing plants	(D)
	2033 Canned fruits and vegetables	(D)
	2037 Frozen fruits and vegetables	(D)
	2074 Cottonseed oil mills	(D)
	2075 Soybean oil mills	(D)
	2077 Animal and marine fats, and oils	(D)
	2833 Medicinals and botanicals	(D)
	2869 Industrial organic chemicals, n.e.c.	(D)
	2879 Agricultural chemicals, n.e.c.	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
2041- --	FLOUR AND OTHER GRAIN MILL PRODUCTS; BLENDED AND PREPARED FLOUR	.....	(NA)	(X)	4,882.9	(X)	3,026.7
2041- --	Flour and other grain mill products	.....	(NA)	(X)	3,678.6	(X)	2,230.6
20411 --	Wheat flour, except flour mixes[3]	1,000 sacks (cwt.)	(NA)	282,430	2,208.9	251,589	1,626.7
	White flour:						
	Shipped for export:						
20411 05	Commercial dollar exports, all white flour types		(15)	11,964	90.4	15,180	90.8
20411 07	All other exports of white flour such as under Public Law 480		(7)	7,581	51.8	6,873	45.7
	Domestic shipments:						
	Bakers' and institutional white bread-type flour:						
20411 11	Shipped in bulk cars or trucks		(28)	117,920	886.9	87,116	520.2
20411 13	Shipped in containers, including tote bins		(22)	27,862	224.3	31,594	198.0
	Bakers' and institutional soft wheat flour, including commercial bakery, restaurant, hospital, etc.:						
20411 15	Shipped in bulk cars or trucks		(31)	36,196	239.6	39,681	219.9
20411 17	Shipped in containers, including tote bins		(23)	7,402	54.5	8,133	50.1
	Family white flour:						
	All family flour other than self-rising, such as phosphated, plain, bromated, enriched, and all-purpose, including all-purpose purchased by the U.S. Government for domestic donation:						
20411 21	Shipped in containers of less than 25 lbs		(28)	12,160	131.2	13,958	131.6
20411 23	Shipped in containers of 25 lbs or more		(30)	7,586	62.8	5,854	46.7
	Self-rising flour:						
20411 24	Shipped in containers of less than 25 lbs		(21)	5,293	63.3	4,776	47.7
20411 25	Shipped in containers of 25 lbs or more		(19)	1,093	10.8	1,119	9.8
	Flour shipped to blenders or other processors (for further processing and/or packing before resale or shipment):						
20411 26	For blending, use in mixes, refrigerated doughs, etc		(NA)	(D)	(D)	10,150	60.6
20411 27	For processing into other food products such as soups, etc		(NA)	(D)	(D)	1,070	6.4
20411 28	For use in nonfood products (pet food, industrial, etc.)		(11)	3,754	20.8	2,494	11.7
	Other than white flour:						
20411 31	Whole wheat		(17)	2,809	24.5	1,615	10.0
20411 51	Durum flour and semolina		(8)	18,360	145.2	15,670	100.4
20411 61	Bulgur		(5)	6,892	50.8	(4)	(4)
20411 98	Other wheat flour, including farina		(10)	3,262	24.3	[4]6,018	[4]37.3
20411 00	Wheat flour, except flour mixes, n.s.k	1,000 sacks (cwt.)	(NA)	(X)	40.8	[5]288	39.8
20412 --	Wheat mill products other than flour	.....	(NA)	(X)	455.4	(X)	222.6
20412 13	Wheat mill feed[3]	1,000 s. tons.	(65)	4,952	433.5	4,249	205.6
20412 17	Wheat germ		(16)	74	18.4	111	11.8
20412 00	Wheat mill products other than flour, n.s.k	1,000 s. tons.	(NA)	[5]39	3.5	49	5.2
20413 --	Corn mill products	.....	(NA)	(X)	413.3	(X)	242.0
	Corn products for human consumption:						
20413 11	Whole cornmeal	1,000 sacks (cwt.)	(23)	2,425	31.8	4,303	30.8
20413 15	Degermed cornmeal		(12)	4,376	59.7	4,073	29.4
20413 21	Corn grits and hominy, except for brewer's use		(6)	7,524	63.4	3,920	25.3
20413 23	Corn grits and flakes for brewer's use	1,000 sacks (cwt.)	(9)	9,269	58.9	10,882	47.0
20413 65	Hominy feed, cornmeal, and other byproducts of dry corn milling (for animal feed)	1,000 s. tons.	(22)	1,402	110.8	(X)	47.6
20413 93	Corn flour	1,000 sacks (cwt.)	(11)	3,853	32.2		
	Other corn mill products:						
20413 95	For human consumption		(9)	3,919	35.5	8,378	58.0
20413 97	Not for human consumption	1,000 sacks (cwt.)	(4)	2,206	13.7		
20413 00	Corn mill products, n.s.k	.....	(NA)	(X)	7.3	(X)	3.9
20416 --	Other grain mill products	.....	(NA)	(X)	98.3	(X)	45.5
20416 11	Rye flour[3]	1,000 sacks (cwt.)	(7)	1,710	12.0	2,623	10.1
20416 23	Other flour, excluding wheat, corn, rye	1,000 sacks (cwt.)	(11)	3,210	29.8	2,636	12.5
20416 27	Other mill feed (oats, rye, buckwheat, etc.)	1,000 s. tons.	(8)	593	56.5	100	5.7
20416 00	Other grain mill products, n.s.k	.....	(NA)	-	-	(X)	17.2

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** - Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
2041- --	FLOUR AND OTHER GRAIN MILL PRODUCTS; BLENDED AND PREPARED FLOUR--Con.						
20410 00	Flour and other grain mill products, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	109.7	(X)	63.5
20410 02	Flour and other grain mill products, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	105.8	(X)	30.3
2045- --	Blended and prepared flour	.....	(NA)	(NA)	1,491.5	(NA)	796.1
20415 --	Made chiefly from flour milled in same establishment	.....	(NA)	(X)	287.2	(X)	143.5
20455 --	Made chiefly from purchased flour	.....	(NA)	(X)	1,204.3	(X)	652.6
	Flour mixes:						
	Pancake and waffle mixes:						
20415 51 20455 51	Shipped in containers of less than 5 pounds	1,000 sacks (cwt.)	(16)	3,608	103.5	1,549	24.2
20415 52 20455 52	Shipped in containers of 5 pounds or more		(15)	2,088	28.9	1,051	28.2
	Cake mixes, including gingerbread:						
20415 53 20455 53	Shipped in containers of less than 5 pounds		(15)	8,256	405.6	5,656	177.6
20415 54 20455 54	Shipped in containers of 5 pounds or more		(12)	1,255	29.7	1,789	64.4
	Biscuit mixes:						
20415 56 20455 56	Shipped in containers of less than 5 pounds		(10)	726	25.7	578	9.0
20415 57 20455 57	Shipped in containers of 5 pounds or more		(8)	720	14.9	86	2.3
	Pie crust mixes:						
20415 58 20455 58	Shipped in containers of less than 5 pounds		(5)	215	11.3	[6]311	[6]9.5
20415 59 20455 59	Shipped in containers of 5 pounds or more		(NA)	(D)	(D)	([6])	([6])
	Cookie mixes, doughnut mixes, and other sweet yeast goods mixes:						
20415 61 20415 64 20455 61 20455 64	Shipped in containers of less than 5 pounds		(5)	368	16.3	1,678	24.0
20415 62 20415 65 20455 62 20455 65	Shipped in containers of 5 pounds or more		(23)	7,944	154.6	5,610	94.6
	Bread and bread-type roll mixes:						
20415 66 20455 66	Shipped in containers of less than 5 pounds		(8)	889	30.2	[7]4,059	[7]70.0
20415 67 20455 67	Shipped in containers of 5 pounds or more		(17)	1,961	42.4	([7])	([7])
	Other prepared flour mixes:						
20415 68 20455 68	Shipped in containers of less than 5 pounds		(17)	3,122	113.0	1,983	38.8
20415 69 20455 69	Shipped in containers of 5 pounds or more	1,000 sacks (cwt.)	(22)	6,026	127.9	2,292	31.5
	Refrigerated doughs:						
20415 71 20455 71	Biscuit dough	Million lb. net wt.	(3)	582	155.8	([8])	([8])
20415 73 20455 73	Cookie dough		(NA)	(D)	(D)	([8])	([8])
20415 75 20455 75	Bread and bread-type rolls, including dinner, Danish		(3)	96	45.7	147.0	43.4
20415 79 20455 79	Other refrigerated doughs, including pizza, coffee cake, etc	Million lb. net wt.	(9)	32	17.5	[8]591.4	[8]136.9
20415 00 20455 00	Blended and prepared flour, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	92.6	(X)	42.1
20455 02	Blended and prepared flour, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	32.5	(X)	-

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972 — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	CEREAL BREAKFAST FOODS						
2043- --	Total	Million lb. net wt.	(NA)	2,821.6	1,832.9	2,276.2	934.6
20430 --	Cereal breakfast foods:						
	Ready to serve:						
20430 11	Corn flakes and other corn breakfast foods		6	577.1	435.2	518.2	235.2
20430 12	Wheat flakes and other wheat breakfast foods		12	692.1	485.3	479.7	206.6
20430 15	Oat breakfast foods		9	(D)	(D)	(D)	(D)
20430 17	Rice breakfast foods		7	254.2	232.3	212.4	141.3
20430 19	Preparations of other grains and mixed grains, including baby cereal		13	292.5	256.1	226.5	113.0
	To be cooked before serving:						
20430 52	Farina and other wheat foods		11	136.4	53.3	126.4	36.9
20430 53	Rolled oats and oatmeal		6	515.4	140.6	(D)	(D)
20430 59	Preparations of other grains and mixed grains		3	(D)	(D)	(D)	(D)
20430 00	Cereal breakfast foods, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	[9]5.6	3.6	[9]8.4	2.9
20430 02	Cereal breakfast foods, n.s.k., typically for establishments with less than 5 employees (see note)	Million lb. net wt.	(NA)	[9]4.3	2.8		
	RICE MILLING						
2044- --	Total	Million lb.	(NA)	9,559.0	1,242.3	6,938.3	671.2
20440 --	Milled rice and byproducts:						
	Head rice:						
20440 11	Packed in 100-pound bags or more		24	3,953.6	582.2	3,705.3	397.4
20440 15	Packed in 3-pound containers or less		12	676.1	240.9	587.0	111.8
20440 17	Packed in all other containers		17	1,602.3	247.4	617.6	84.1
20440 21	Second heads		18	533.0	37.5	254.0	17.2
20440 31	Screenings		9	37.7	6.2	75.0	4.2
20440 41	Brewers' rice		21	528.2	36.9	180.1	8.9
20440 51	Bran		19	497.0	24.1	724.8	12.4
20440 98	All other milled rice and byproducts (millfeed, hulls, etc.)		16	1,262.8	35.0	723.3	28.4
20440 00	Milled rice products, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	395.0	22.2	60.0	5.3
20440 02	Milled rice products, n.s.k., typically for establishments with less than 5 employees (see note)	Million lb.	(NA)	73.3	9.9	11.2	1.5
	WET CORN MILLING						
2046- --	Total	.....	(NA)	(X)	1,946.1	(X)	786.7
	Glucose sirup (corn sirup), unmixed:						
20460 03	Type I (20 dextrose equivalent up to 38)	Million lb.	4	207.7	12.7	385.2	14.4
20460 04	Type II (38 dextrose equivalent up to 58)		10	2,980.5	160.5	1,592.6	60.2
20460 05	Type III (58 dextrose equivalent up to 73)		6	1,175.5	72.4	1,630.4	68.1
	Type IV (73 dextrose equivalent and above):						
20460 06	High fructose corn sirup		8	3,202.9	250.5	519.9	22.4
20460 09	All other type IV		4	207.9	12.3		
20460 18	Glucose sirup solids (dried glucose sirup)		5	154.5	25.6	84.2	7.8
20460 19	Dextrose monohydrate and dextrose anhydrous		3	1,266.7	138.6	1,349.5	92.1
	Manufactured starch:						
20460 35	Corn starch, including milo		14	5,486.4	408.2	3,588.3	208.8
20460 45	Other starch, including Irish potato, wheat, rice, etc.		8	251.4	43.6	185.5	20.9
20460 51	Dextrin (corn, tapioca, and other)		3	138.0	25.2	83.3	11.5
	Corn oil:						
20460 61	Crude		16				
20460 63	Once-refined		5	([10])	311.5	([10])	84.9
20460 67	Fully refined, including margarine oil		14				
	Wet process corn byproducts:						
20460 71	Steepwater concentrate (50 percent solids basis)		5	135.5	4.1	99.8	2.3
20460 75	Corn gluten feed		12	4,199.8	226.6	3,050.8	76.4
20460 77	Corn gluten meal		13	1,000.7	122.2	783.0	51.3
20460 79	Other wet process corn byproducts	Million lb.	8	1,564.0	117.9	1,076.0	50.5
20460 00	Other wet corn milling products, n.s.k., typically for establishments with 15 employees or more (see note)	.....	(NA)	(X)	7.8	(X)	13.4
20460 02	Other wet corn milling products, n.s.k., typically for establishments with less than 15 employees (see note)	.....	(NA)	(X)	6.4	(X)	1.7

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** - Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	DOG, CAT, AND OTHER PET FOOD						
2047- --	Total	.....	(NA)	(X)	3,071.0	(X)	1,451.1
20471 --	Dog and cat food	Million lb.	(NA)	(X)	2,717.1	(X)	1,303.7
	Dog food:						
	Canned:						
20471 21	Ration type		23	1,040.0	191.0	1,756.5	195.1
20471 23	Other		16	1,294.2	345.3	948.5	236.8
	Dry dog food:						
20471 25	Shipped in packages of under 25 pounds		33	2,106.0	445.4	1,371.6	168.0
20471 27	Shipped in packages of 25 pounds or over		98	4,165.0	762.2	2,738.7	260.2
	Semimoist dog food:						
20471 31	Shipped in packages of 1 pound or less		2	(11)	(11)	(11)	(11)
20471 33	Shipped in packages of more than 1 pound		10	(11)	(11)	(11)	(11)
20471 35	Fresh and frozen horsemeat		12	100.9	61.5	(11)	(11)
20471 37	Canned animal feed, containing 20 percent or more meat		3	2.0	.8	(11)	(11)
	Cat food:						
	Canned:						
20471 41	Fish base		18	797.8	264.1	221.9	33.2
20471 43	Meat base		9	201.1	71.7	251.8	46.4
20471 45	Other (ration meal base)		4	21.2	4.3	(11)	(11)
	Dry cat food:						
20471 53	Shipped in packages of under 25 pounds		9	(11)	(11)	(11)	(11)
20471 55	Shipped in packages of 25 pounds or over		11	(11)	(11)	(11)	(11)
	Semimoist cat food:						
20471 56	Shipped in packages of 1 pound or less		3	(11)	(11)	(11)	(11)
20471 58	Shipped in packages of more than 1 pound	Million lb.	3	(11)	(11)	(11)	(11)
20471 00	Dog and cat food, n.s.k	Million lb.	(NA)	(X)	29.8	12558.4	71.4
20472 --	Other pet and specialty feeds	.....	(NA)	(X)	268.1	(X)	147.4
20472 51	Pet food other than dog or cat food	Million lb.	21	334.4	39.8	258.6	22.3
	Specialty feeds:						
20472 61	Laboratory (mouse, guinea pig, etc.)	1,000 s. tons.	6	57.9	14.4	55.5	8.0
20472 63	Fur (mink, fox, etc.)		18	99.1	20.7	77.8	9.3
20472 65	Bird (wild, tame, pigeon, game)		21	168.2	33.8	189.2	19.8
20472 67	Rabbit		51	200.7	31.8	158.8	15.6
20472 69	Other		45	643.1	119.3	312.7	43.3
20472 00	Other pet and specialty feeds, n.s.k	1,000 s. tons.	(NA)	(X)	8.3	12264.5	29.1
20470 00	Prepared animal feeds, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	43.7	(X)	(13)
20470 02	Prepared animal feeds, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	42.0		
	PREPARED FEEDS, N.E.C.						
2048- --	Total	.....	(X)	(X)	8,350.2	(X)	4,658.2
20481 --	Poultry feeds, egg type, broiler, and turkey	.....	(X)	(X)	2,758.6	(X)	1,440.5
	Complete poultry feeds:						
20481 11	Starter-grower	1,000 s. tons.	132	2,855	390.3	1,951	164.7
20481 15	Layer-breeder		192	4,465	621.4	5,182	427.6
20481 16	Broiler		70	6,626	1,068.1	5,743	519.3
20481 18	Turkey		62	1,271	204.5	1,506	137.9
	Poultry feed supplements and concentrates:						
20481 13	Starter-grower		29	*114	21.5	175	18.9
20481 17	Layer-breeder		58	712	137.6	879	100.3
20481 26	Broiler		25	911	189.4	359	49.8
20481 28	Turkey	1,000 s. tons.	24	*147	31.2	179	22.0
20481 00	Poultry feeds, egg type, broiler, and turkey, n.s.k	.....	(NA)	(X)	94.6	-	-
20482 --	Dairy cattle feeds, complete:						
20482 10	Complete livestock feeds, dairy cattle	1,000 s. tons.	245	*8,861	1,145.6	7,348	561.4
20483 --	Dairy cattle feed supplements and concentrates:						
20483 20	Livestock feed supplements and concentrates, dairy cattle		145	*1,474	308.5	1,919	194.9
20484 --	Swine feeds, complete:						
20484 10	Complete livestock feeds, swine		255	*3,375	575.8	3,386	300.7
20485 --	Swine feed supplements and concentrates:						
20485 20	Livestock feed supplements and concentrates, swine		193	*3,885	892.3	3,659	453.5
20486 --	Beef cattle feeds, complete:						
20486 10	Complete livestock feeds, beef cattle		187	*2,924	367.1	3,128	238.5
20487 --	Beef cattle feed supplements and concentrates:						
20487 20	Livestock feed supplements and concentrates, beef cattle	1,000 s. tons.	171	*4,235	603.8	3,555	307.5

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	PREPARED FEEDS, N.E.C.--Con.						
20488 --	Other poultry and livestock feeds, including duck, geese, horse, mule, etc.	1,000 s. tons.	(NA)	(X)	337.9	(X)	237.3
	Complete feeds:						
20488 16	Horse and mule		108	1,162	158.8	1,045	85.2
20488 14	Other poultry (duck, geese, etc.)		21	188	36.4	1,092	74.8
20488 18	Other livestock (sheep, etc.)		42	422	40.2		
	Feed supplements and concentrates:						
20488 17	Horse and mule		20	*106	18.8	69	7.1
20488 15	Other poultry (duck, geese, etc.)		7	*102	14.4	714	70.2
20488 19	Other livestock (sheep, etc.)	1,000 s. tons.	23	213	34.1		
20488 00	Other poultry and livestock feeds, n.s.k.	.....	24	(X)	35.2	-	-
20489 --	Other prepared animal feeds, including feeding materials and adjuncts	.....	(NA)	(X)	338.0	(X)	167.7
20489 11	Grain ground, rolled, pulverized, chopped, or crimped, excluding corn meal	Mil. sacks cwt.	70	**11.9	91.3	13.8	64.0
20489 22	Mineral mixtures, including oyster shells prepared for feed use	Million lb....	59	*789.2	95.9	429.7	26.4
	Alfalfa meal:						
20489 35	Dehydrated	1,000 s. tons.	54	*1,198	90.7	1,399	64.9
20489 39	Sun cured and cubed	1,000 s. tons.	25	**298	22.8	281	12.4
20489 00	Other prepared animal feeds, n.s.k.	.....	62	(X)	37.3	-	-
20480 00	Prepared feeds, n.e.c., n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	851.8	(X)	[14] 596.2
20480 02	Prepared feeds, n.e.c., n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	170.8	(X)	[14] 160.0

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data.

The following symbols are used when percentage of each quantity-figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]The Census Bureau publishes detailed monthly production data for flour milling products in Current Industrial Reports M-20A, Flour Milling Products. CIR data and census data differ because CIR reports production by individual companies and census reports shipments and because company data in CIR are on calendar year basis and that in census are on fiscal year basis. For comparison, summary figures published in CIR are shown below:

Code	Product	Unit of measure	1977 production (from CIR M20A)	1977 shipments (from census of manufactures)
20411	Wheat flour, except flour mixes	1,000 sacks (cwt.)	275,784	282,430
20412 13	Wheat mill feed	1,000 short tons	4,593	4,952
20416 11	Rye flour	1,000 sacks (cwt.)	1,660	1,710

[4]For 1972, product code 20411 61 and 20411 98 were combined to avoid disclosing operations of individual companies.

[5]Quantity estimated based on quantity-value relationship of other products in the product class.

[6]For 1972, product codes 20415 59, 20455 59, 20415 58, and 20455 58 were combined to avoid disclosing operations of individual companies.

[7]For 1972, product codes 20415 67, 20455 67, 20415 66, were combined to avoid disclosing operations of individual companies.

[8]For 1972, product codes 20415 71, 20455 71, 20415 73, 20455 73, 20415 79, and 20455 79 were combined to avoid disclosing operations of individual companies.

[9]Quantity was estimated based on quantity-value relationship of all other products in this industry.

[10]Data withheld because shipments between establishments include duplication.

[11]Data are included in product class 20471 total to avoid publishing figures that, although otherwise publishable, were withheld to prevent indirect disclosure through subtraction from higher level totals or from related figures.

[12]Quantity was estimated based on quantity-value relationship of other products in this product class.

[13]For 1972, product codes 20470 00 and 20470 02 were collected separately.

[14]Includes an unknown amount for pet food manufactures.

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20411, WHEAT FLOUR, EXCEPT FLOUR MIXES		
United States	2,208.9	1,626.7
Middle Atlantic Division:		
New York	246.1	156.4
Pennsylvania	42.9	FF
East North Central Division:		
Ohio	86.6	68.9
Indiana	48.4	38.5
Illinois	111.1	83.0
Michigan	18.7	FF
West North Central Division:		
Minnesota	259.0	190.9
Missouri	204.4	159.6
Nebraska	63.0	FF
Kansas	258.8	229.8
South Atlantic Division:		
Virginia	38.3	23.3
North Carolina	54.2	36.7
Georgia	11.3	CC
East South Central Division:		
Kentucky	3.9	BB
Tennessee	103.2	63.7
West South Central Division:		
Oklahoma	58.0	32.1
Texas	64.5	66.1
Mountain Division:		
Montana	33.6	20.3
Pacific Division:		
Oregon	36.1	FF
California	133.2	77.1
20412, WHEAT MILL PRODUCTS OTHER THAN FLOUR		
United States	455.4	222.6
Middle Atlantic Division:		
New York	44.7	19.7
Pennsylvania	10.3	BB
East North Central Division:		
Ohio	20.1	9.4
Indiana	13.9	CC
Illinois	30.1	11.8
Michigan	5.3	11.5
West North Central Division:		
Minnesota	44.4	22.9
Missouri	37.1	18.6
Kansas	54.0	28.7
South Atlantic Division:		
North Carolina	13.4	3.9
East South Central Division:		
Tennessee	22.2	8.5
West South Central Division:		
Oklahoma	12.0	4.1
Texas	13.9	10.4
Mountain Division:		
Montana	5.0	AA
Pacific Division:		
Washington	7.9	7.3
California	27.4	12.4
20413, CORN MILL PRODUCTS		
United States	413.3	242.0
East North Central Division:		
Illinois	133.6	58.4
West North Central Division:		
Missouri	50.7	FF
South Atlantic Division:		
North Carolina	3.2	2.7
East South Central Division:		
Tennessee	34.2	20.3
West South Central Division:		
Texas	5.4	CC
20415, FLOUR MIXES AND REFRIGERATED DOUGHS		
United States	287.2	143.5
West North Central Division:		
Minnesota	3.4	AA
Kansas	3.4	AA
Pacific Division:		
California	17.3	CC
20416, OTHER GRAIN MILL PRODUCTS, N.E.C.		
United States	98.3	45.5
Middle Atlantic Division:		
New York	5.5	AA
West North Central Division:		
Minnesota	26.8	12.7
20455, PREPARED FLOUR MIXES AND REFRIGERATED DOUGHS		
United States	1.204.3	(NA)
Middle Atlantic Division:		
New York	135.2	(NA)
Pennsylvania	56.2	(NA)
East North Central Division:		
Ohio	158.9	(NA)
Illinois	249.0	(NA)
East North Central Division:		
Michigan	14.1	(NA)
Wisconsin	6.3	(NA)
South Atlantic Division:		
Florida	3.1	(NA)
West South Central Division:		
Texas	86.5	(NA)
Mountain Division:		
Colorado	8.4	(NA)
Pacific Division:		
Washington	24.8	(NA)
California	118.6	(NA)
20471, DOG AND CAT FOOD		
United States	2,717.1	1,303.7
Middle Atlantic Division:		
New York	170.2	40.4
Pennsylvania	229.8	136.5
East North Central Division:		
Ohio	187.1	114.9
Indiana	78.1	CC
Illinois	368.0	245.2
West North Central Division:		
Minnesota	12.3	(NA)
Missouri	118.7	FF
Kansas	111.7	51.0
South Atlantic Division:		
Maryland	2.3	(NA)
Virginia	2.4	1.4
North Carolina	16.3	3.1
East South Central Division:		
Tennessee	27.4	11.1
Alabama	59.7	29.5
Mississippi	66.6	FF
West South Central Division:		
Arkansas	2.5	BB
Texas	44.6	8.5
Pacific Division:		
California	324.0	189.0

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** - Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20472, OTHER PET AND SPECIALTY FEEDS		
United States	268.1	147.4
Middle Atlantic Division:		
New Jersey	22.1	BB
Pennsylvania	3.4	4.9
East North Central Division:		
Ohio	10.2	3.5
Indiana	12.4	CC
Illinois	11.3	9.9
Wisconsin	12.6	19.5
West North Central Division:		
Minnesota	20.9	10.3
Iowa	6.8	2.8
Missouri	5.3	3.5
Nebraska	10.2	5.4
South Atlantic Division:		
North Carolina	4.6	(NA)
Georgia	3.5	1.6
Florida	6.2	8.2
East South Central Division:		
Alabama	4.8	2.4
West South Central Division:		
Arkansas	6.7	2.2
Texas	9.7	3.1
Mountain Division:		
Colorado	4.3	3.1
Pacific Division:		
Washington	5.0	BB
Oregon	8.7	3.7
California	10.9	15.7
20481, POULTRY FEEDS (EXCEPT DUCK AND GEESE)		
United States	2,758.6	1,440.5
New England Division:		
Massachusetts	12.3	(NA)
Middle Atlantic Division:		
New York	25.5	(NA)
New Jersey	13.8	(NA)
Pennsylvania	131.6	54.9
East North Central Division:		
Ohio	53.2	32.0
Indiana	99.2	32.0
Illinois	40.3	FF
Michigan	10.4	(NA)
Wisconsin	29.3	EE
West North Central Division:		
Minnesota	27.2	(NA)
Iowa	27.3	(NA)
Missouri	89.5	32.7
South Dakota	5.0	(NA)
Nebraska	9.0	(NA)
Kansas	9.9	(NA)
South Atlantic Division:		
Maryland	150.5	(NA)
Virginia	114.1	FF
North Carolina	247.9	116.5
South Carolina	18.8	(NA)
Georgia	371.4	171.4
Florida	48.4	(NA)
East South Central Division:		
Kentucky	9.3	(NA)
Tennessee	76.4	(NA)
Alabama	171.1	(NA)
Mississippi	92.6	(NA)
West South Central Division:		
Arkansas	306.1	166.9
Louisiana	41.8	(NA)
Oklahoma	34.7	(NA)

Product class and geographic area	Value of product shipments	
	1977	1972
20481, POULTRY FEEDS EXCEPT DUCK AND GEESE--Con.		
Mountain Division:		
Colorado	11.9	(NA)
Pacific Division:		
Washington	34.9	EE
Oregon	12.9	(NA)
California	186.2	118.7
20482, DAIRY CATTLE FEEDS, COMPLETE		
United States	1,145.6	561.4
New England Division:		
Maine	13.1	(NA)
Vermont	59.1	(NA)
Middle Atlantic Division:		
New York	139.3	(NA)
Pennsylvania	49.2	(NA)
East North Central Division:		
Ohio	26.5	(NA)
Indiana	23.3	(NA)
Illinois	7.8	(NA)
Michigan	3.8	(NA)
Wisconsin	20.8	(NA)
West North Central Division:		
Minnesota	23.1	(NA)
Iowa	12.2	(NA)
Missouri	79.3	(NA)
South Dakota	2.6	(NA)
Nebraska	4.6	(NA)
Kansas	10.5	(NA)
South Atlantic Division:		
Virginia	22.3	(NA)
North Carolina	30.8	(NA)
South Carolina	16.2	(NA)
Georgia	37.6	(NA)
Florida	70.9	(NA)
East South Central Division:		
Kentucky	16.5	(NA)
Tennessee	54.7	(NA)
Alabama	18.5	(NA)
West South Central Division:		
Arkansas	18.6	(NA)
Louisiana	23.8	(NA)
Oklahoma	10.7	(NA)
Texas	52.6	(NA)
Mountain Division:		
Idaho	4.7	(NA)
Colorado	5.5	(NA)
Arizona	13.0	(NA)
Pacific Division:		
Washington	31.6	(NA)
Oregon	25.0	(NA)
California	150.3	(NA)
20483, DAIRY CATTLE FEED SUPPLEMENTS AND CONCENTRATES		
United States	308.5	194.9
Middle Atlantic Division:		
New York	5.1	(NA)
Pennsylvania	27.7	(NA)
East North Central Division:		
Ohio	16.6	(NA)
Indiana	17.8	(NA)
Illinois	51.9	(NA)
Michigan	7.0	(NA)
Wisconsin	31.7	(NA)
West North Central Division:		
Minnesota	27.1	(NA)
Iowa	34.0	(NA)
Missouri	4.5	(NA)
Nebraska	5.3	(NA)
Kansas	3.0	(NA)

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** - Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20483, DAIRY CATTLE FEED SUPPLEMENTS AND CONCENTRATES--Con.		
South Atlantic Division:		
Virginia	3.8	(NA)
North Carolina	5.5	(NA)
Florida	5.5	(NA)
East South Central Division:		
Kentucky	5.5	(NA)
Tennessee	2.4	(NA)
West South Central Division:		
Texas	6.7	(NA)
Mountain Division:		
Colorado	5.7	(NA)
Pacific Division:		
California	24.8	(NA)
20484. SWINE FEEDS, COMPLETE		
United States	575.8	300.7
Middle Atlantic Division:		
New York	2.7	(NA)
Pennsylvania	11.4	(NA)
East North Central Division:		
Ohio	14.7	(NA)
Indiana	29.1	(NA)
Illinois	75.6	(NA)
Wisconsin	11.6	(NA)
West North Central Division:		
Minnesota	29.3	(NA)
Iowa	99.4	(NA)
Missouri	44.6	(NA)
South Dakota	12.7	(NA)
Nebraska	37.7	(NA)
Kansas	11.9	(NA)
South Atlantic Division:		
Virginia	7.4	(NA)
North Carolina	26.1	(NA)
South Carolina	5.4	(NA)
Georgia	23.8	(NA)
Florida	2.8	(NA)
East South Central Division:		
Kentucky	6.3	(NA)
Tennessee	22.5	(NA)
Alabama	14.8	(NA)
Mississippi	4.5	(NA)
West South Central Division:		
Arkansas	7.4	(NA)
Louisiana	3.4	(NA)
Oklahoma	14.0	(NA)
Texas	23.0	(NA)
Mountain Division:		
Colorado	7.8	(NA)
Pacific Division:		
Washington	2.9	(NA)
California	4.8	(NA)
20485. SWINE FEED SUPPLEMENTS AND CONCENTRATES		
United States	892.3	453.5
Middle Atlantic Division:		
Pennsylvania	8.0	(NA)
East North Central Division:		
Ohio	24.1	(NA)
Indiana	53.6	(NA)
Illinois	220.3	(NA)
Michigan	5.0	(NA)
Wisconsin	16.9	(NA)

Product class and geographic area	Value of product shipments	
	1977	1972
20485, SWINE FEED SUPPLEMENTS AND CONCENTRATES--Con.		
West North Central Division:		
Minnesota	38.6	(NA)
Iowa	231.9	(NA)
Missouri	41.4	(NA)
South Dakota	15.2	(NA)
Nebraska	80.9	(NA)
Kansas	24.3	(NA)
South Atlantic Division:		
Virginia	7.0	(NA)
North Carolina	29.7	(NA)
Georgia	26.2	(NA)
East South Central Division:		
Kentucky	8.1	(NA)
Tennessee	14.0	(NA)
Alabama	7.7	(NA)
Mississippi	2.3	(NA)
West South Central Division:		
Oklahoma	3.2	(NA)
Texas	14.9	(NA)
Mountain Division:		
Colorado	3.5	(NA)
Pacific Division:		
California	3.7	(NA)
20486, BEEF CATTLE FEEDS, COMPLETE		
United States	367.1	238.5
Middle Atlantic Division:		
Pennsylvania	2.8	(NA)
East North Central Division:		
Ohio	2.7	(NA)
Indiana	2.8	(NA)
Illinois	6.9	(NA)
Wisconsin	4.6	(NA)
West North Central Division:		
Minnesota	6.0	(NA)
Iowa	24.8	(NA)
Missouri	34.5	(NA)
South Dakota	3.7	(NA)
Nebraska	26.8	(NA)
Kansas	11.4	(NA)
South Atlantic Division:		
North Carolina	2.8	(NA)
Georgia	8.6	(NA)
Florida	13.3	(NA)
East South Central Division:		
Tennessee	9.3	(NA)
Alabama	9.7	(NA)
Mississippi	5.6	(NA)
West South Central Division:		
Arkansas	7.8	(NA)
Louisiana	8.2	(NA)
Oklahoma	36.5	(NA)
Texas	84.4	(NA)
Mountain Division:		
Montana	2.1	(NA)
Colorado	2.7	(NA)
Pacific Division:		
Washington	4.1	(NA)
Oregon	3.7	(NA)
California	21.3	(NA)

See footnotes at end of table.

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972 — Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20487, BEEF CATTLE FEED SUPPLEMENTS AND CONCENTRATES		
United States	603.8	307.5
Middle Atlantic Division:		
Pennsylvania	3.2	(NA)
East North Central Division:		
Ohio	5.3	(NA)
Indiana	46.5	(NA)
Illinois	63.4	(NA)
Wisconsin	4.0	(NA)
West North Central Division:		
Minnesota	17.0	(NA)
Iowa	76.3	(NA)
Missouri	26.1	(NA)
South Dakota	12.7	(NA)
Nebraska	73.6	(NA)
Kansas	58.2	(NA)
South Atlantic Division:		
Georgia	3.3	(NA)
Florida	19.6	(NA)
East South Central Division:		
Tennessee	4.9	(NA)
Alabama	8.3	(NA)
West South Central Division:		
Oklahoma	21.8	(NA)
Texas	65.7	(NA)
Mountain Division:		
Montana	6.7	(NA)
Colorado	25.4	(NA)
Pacific Division:		
California	25.7	(NA)
20488, OTHER POULTRY AND LIVESTOCK FEEDS		
United States	337.9	237.3
Middle Atlantic Division:		
New York	7.8	(NA)
Pennsylvania	12.3	CC
East North Central Division:		
Ohio	15.8	CC
Indiana	7.8	FF
Illinois	29.5	18.7
Wisconsin	24.7	(NA)
West North Central Division:		
Minnesota	4.5	CC
Iowa	6.1	(NA)
Missouri	6.7	9.2
South Dakota	2.1	(NA)
Nebraska	8.3	(NA)
Kansas	3.3	(NA)
20488, OTHER POULTRY AND LIVESTOCK FEEDS--Con.		
South Atlantic Division:		
Virginia	11.5	(NA)
North Carolina	12.8	4.1
South Carolina	2.1	(NA)
Georgia	8.2	(NA)
Florida	9.2	10.5
East South Central Division:		
Kentucky	2.7	(NA)
Tennessee	12.7	(NA)
Alabama	10.2	6.4
Mississippi	4.8	(NA)
West South Central Division:		
Arkansas	6.7	(NA)
Louisiana	4.8	(NA)
Oklahoma	7.5	5.2
Texas	38.7	20.9
Mountain Division:		
Idaho	2.0	(NA)
Arizona	4.3	(NA)
Pacific Division:		
Washington	3.3	(NA)
California	11.7	25.7
20489, OTHER PREPARED ANIMAL FEEDS		
United States	338.0	167.7
Middle Atlantic Division:		
Pennsylvania	6.1	BB
East North Central Division:		
Ohio	20.5	10.3
Wisconsin	7.5	CC
West North Central Division:		
Minnesota	6.5	9.3
Iowa	37.9	4.3
Missouri	16.2	3.8
South Dakota	2.2	2.3
Nebraska	56.7	27.8
Kansas	20.9	3.6
South Atlantic Division:		
Virginia	5.2	(NA)
North Carolina	3.7	(NA)
Georgia	7.9	2.8
Florida	7.4	1.6
East South Central Division:		
Alabama	5.9	6.7
West South Central Division:		
Arkansas	12.2	1.4
Texas	15.6	10.3
Mountain Division:		
Idaho	3.2	1.2
Colorado	14.6	4.1
Arizona	3.6	(NA)
Pacific Division:		
Oregon	3.4	AA
California	21.7	23.8

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available. N.E.C. Not elsewhere classified.

Table 6c. Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2041-	Flour and other grain mill products	3,678.6	4,002.3	4,133.9	4,348.8	3,366.6	2,374.1	2,322.5	2,091.5
20411	Wheat flour, except flour mixes	2,208.9	2,563.9	2,681.7	2,938.7	2,273.5	1,626.7	1,557.7	1,511.7
20412	Wheat mill products other than flour	455.4	474.3	452.6	464.0	342.2	222.6	204.3	199.5
20413	Corn mill products	413.3	492.3	551.7	499.9	385.0	242.0	261.8	193.0
20415	Flour mixes and refrigerated doughs	287.2	242.7	245.2	240.4	156.3	143.5	148.6	115.0
20416	Other grain mill products, n.e.c	98.3	207.9	186.7	155.3	(138.9)	45.5	43.4	46.0
20410	Flour and other grain mill products, n.s.k	215.5	(21.2)	(S)	(50.5)	70.7	93.8	106.7	26.3
20430	Cereal breakfast foods	1,832.9	1,744.6	1,702.8	1,364.2	1,073.3	934.6	715.7	561.4
20440	Milled rice and byproducts	1,242.3	1,103.9	1,418.0	1,408.3	884.9	671.3	548.0	407.1
20455	Prepared flour mixes and refrigerated doughs	1,204.3	1,256.5	1,152.2	942.8	696.2	652.6	496.3	390.1
20460	Wet corn milling products	1,946.1	1,861.2	1,988.6	1,772.3	1,083.2	786.6	646.6	547.3
2047-	Dog, cat, and other pet food	3,071.0	2,846.7	2,514.4	2,315.5	1,890.7	1,451.1	806.7	(NA)
20471	Dog and cat food	2,717.1	2,585.9	2,255.4	2,081.5	1,727.1	1,303.7	699.9	(NA)
20472	Other pet and specialty feeds	268.1	260.8	259.0	234.0	163.6	147.4	106.8	(NA)
20470	Dog, cat, and other pet food, n.s.k	85.7	(X)	(X)	(X)	(X)	(X)	(NA)	(NA)
2048-	Prepared feeds, n.e.c	8,350.2	7,550.4	6,842.1	7,164.4	6,334.0	4,658.2	3,724.2	(NA)
20481	Poultry feeds, except duck and geese	2,758.6	2,573.4	2,424.7	2,567.8	2,200.4	1,440.5	1,400.7	(NA)
20482	Dairy cattle feeds, complete	1,145.6	1,490.7	1,364.4	1,337.5	1,131.9	561.4	504.4	(NA)
20483	Dairy cattle feed supplements and concentrates	308.5					194.9		
20484	Swine feeds, complete	575.8	1,485.6	1,267.7	1,299.4	1,081.5	300.7	565.3	(NA)
20485	Swine feed supplements and concentrates	892.3					453.5		
20486	Beef cattle feeds, complete	367.1	1,119.7	970.8	1,055.9	928.2	238.5	347.8	(NA)
20487	Beef cattle feed supplements and concentrates	603.8					307.5		
20488	Other poultry and livestock feeds	337.9	492.9	447.2	500.7	371.0	237.3	127.7	(NA)
20489	Other prepared animal feeds	338.0	(318.2)	(272.2)	(263.6)	294.2	167.7	168.5	(NA)
20480	Prepared feed, n.e.c., n.s.k	1,022.6	(70.0)	(95.2)	(139.5)	(326.8)	756.2	609.8	(NA)

NA Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because the estimate did not meet publication standards. (X) Not applicable.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from the results that would be obtained from a complete canvass of all manufacturing establishments, Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product-class level, estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2041, FLOUR AND OTHER GRAIN MILL PRODUCTS					
	Materials, ingredients, containers, and supplies	.....	(X)	2,707.4	(X)	1,804.1
011111	Wheat	Million bu.	605.2	1,845.1	573.2	1,365.3
011521	Corn	↑	83.4	188.5	87.1	121.1
011931	Oats		19.5	32.3	9.1	7.3
011913	Barley		5.3	6.8	3.0	3.8
011961	Sorghum grain	Million bu.	5.4	11.3	4.9	6.0
204110	Wheat flour	1,000 cwt.	9,588.2	69.9	7,726.2	47.0
206011	Sugar (cane and beet) in terms of sugar solids	1,000 cwt.	1,404.4	22.0	2,115.9	23.9
207003	Fats and oils for use in flour and prepared flour mixes	Million lb.	56.0	16.3	42.3	9.6
229921	Burlap bags, new	Million bags	5.5	1.8	10.7	3.0
239301	Cotton bags	↑	27.2	9.1	(X)	10.4
239302	Polypropylene bags (textile type)	Million bags	23.3	6.3	(X)	(X)
264338	Paper shipping sacks	Million sacks	328.4	45.6	(X)	27.3
265001	Paperboard boxes and containers	.....	(X)	8.0	(X)	(X)
970099	All other materials and components, parts, containers, and supplies	.....	(X)	168.5	(X)	116.2
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	275.9	(X)	63.2
	INDUSTRY 2043, CEREAL BREAKFAST FOODS					
	Materials, ingredients, containers, and supplies	.....	(NA)	901.4	(NA)	359.2
011111	Wheat	1,000 bushels	9.4	33.4	9.2	20.6
011241	Rice, rough	Million lb.	192.8	28.4	(X)	(X)
011931	Oats	1,000 bushels	(D)	(D)	27.7	20.9
204001	Flour (other than wheat) and prepared flour mixes	1,000 cwt.	2,689.6	26.4	(X)	(X)
204110	Wheat flour	1,000 cwt.	(D)	(D)	(D)	(D)
206011	Sugar (cane and beet)	1,000 cwt.	6,703.5	108.1	4,197.9	49.2
207003	Fats and oils for use in flour and prepared flour mixes	Million lb.	(D)	(D)	(D)	(D)
203415	Dried fruit and nuts	1,000 cwt.	388.3	30.8	(X)	(X)
970015	Paperboard containers and converted flexible packaging materials (including drums, fiber cans, cartons, liner materials, etc.)	.....	(X)	211.7	(X)	(X)
970099	All other materials, ingredients, containers, and supplies	.....	(X)	345.2	(X)	r217.9
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	4.4	(X)	2.8
	INDUSTRY 2044, RICE MILLING					
	Materials, ingredients, containers, and supplies	.....	(X)	874.0	(X)	514.1
011241	Rice, rough	Million lb.	9,162.5	732.3	8,803.1	484.0
204010	Corn germ	Million lb.	(X)	(X)	(X)	(X)
970099	All other materials, ingredients, containers, and supplies	.....	(X)	125.0	(X)	30.1
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	16.7	-	-
	INDUSTRY 2045, BLENDED AND PREPARED FLOUR					
	Materials, ingredients, containers, and supplies	.....	(X)	550.9	(X)	369.9
204001	Flour (other than wheat) and prepared flour mixes	1,000 cwt.	1,901.4	23.1	(X)	(X)
011111	Wheat	↑	(4)	(4)	(Z)	(D)
204110	Wheat flour		13,506.9	106.9	11,931.2	75.1
206011	Sugar (cane and beet)	1,000 cwt.	4,063.8	65.9	4,506.8	53.2
207003	Fats and oils for use in flour and prepared flour mixes	Million lb.	196.1	50.5	150.9	25.5
970015	Paperboard containers and converted flexible packaging materials, including drums, fiber cans, cartons, liner materials, etc	.....	(X)	80.0	(X)	(X)
970099	All other materials and components, parts, containers, and supplies	.....	(X)	4142.5	(X)	126.9
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	82.0	(X)	30.9
	INDUSTRY 2046, WET CORN MILLING					
	Materials, ingredients, containers, and supplies	.....	(NA)	1,138.7	(NA)	451.7
011001	Corn, including sorghum grain	Million bu.	379.5	852.0	261.8	337.0
204010	Corn germ	.....	(X)	(3)	(X)	(X)
970099	All other materials, ingredients, containers, and supplies	.....	(X)	3277.8	(X)	107.7
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	8.9	(X)	7.0

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A. Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2047, DOG, CAT, AND OTHER PET FOOD					
	Materials, ingredients, containers, and supplies	.....	(X)	1,495.7	(X)	737.6
011111	Wheat	Million bu.....	9.4	26.6	6.0	11.4
011521	Corn		46.5	118.4	31.2	40.6
011931	Oats		3.5	5.8	7.5	5.5
011913	Barley		1.6	4.7	1.1	2.3
011961	Sorghum grain	Million bu.....	.5	1.3	.9	.9
204110	Wheat flour	1,000 cwt.....	2,421.1	14.8	1,671.4	5.9
204123	Wheat germ	1,000 s. tons..	33.6	4.1	12.6	1.3
206011	Sugar (cane and beet) in terms of sugar solids	1,000 cwt.....	1.106 3	19.1	1,176.1	13.5
207003	Fats and oils for use in flour and prepared flour mixes	Million lb.....	12.9	3.7	(D)	(D)
207004	Fats and oils used in animal feeds	Million lb.....	357.1	60.4	217.3	16.0
207441	Cottonseed cake and meal	1,000 s. tons..	51.7	8.2	(D)	(D)
207521	Soybean cake and meal		616.4	120.3	504.2	55.8
207631	Other oilseed cake and meal		(D)	(D)	-	-
204893	Alfalfa meal, excluding alfalfa hay	1,000 s. tons..	28.3	4.1	25.0	1.5
204135	Corn meal	1,000 cwt.....	671.9	4.0	574.0	1.8
204133	Hominy feed and meal	1,000 s. tons..	(D)	(D)	(D)	(D)
207736	Fish meal and solubles		36.3	14.5	20.9	3.6
204607	Corn gluten feed and meal		214.0	34.2	64.5	5.7
	Millfeed and screenings:					
204122	Wheat		312.9	26.8	128.2	6.8
207522	Soybean		60.6	12.8		
204161	Other millfeed and screenings		83.2	8.5		
207721	Meat meal and tankage	1,000 s. tons..	490.3	104.8	366.4	51.3
206311	Molasses	1,000 cwt.....	863.4	2.8	(X)	[1]
208249	Brewers' and distillers' grains	1,000 s. tons..	13.7	3.0	7.2	.5
287321	Urea		3.1	.3	(D)	(D)
	Microingredients:					
283301	Vitamins		(X)	11.5	(X)	6.8
283302	Drugs and antibiotics		(X)	1.8		
283304	All other microingredients, including trace minerals		(X)	8.7		
283305	Minerals (except trace mineral), including calcium, phosphorous, and salt		(X)	9.0	(X)	[5]
204801	Supplements and concentrates (mixture of feed ingredients)	1,000 s. tons..	(X)	(D)	(X)	1.3
229921	Burlap bags, new	Million bags...	(D)	(D)	1.1	.3
239301	Cotton bags		(D)	(D)	.2	.1
239302	Polypropylene bags (textile type)	Million bags...	35.1	3.6	(X)	[1]
264338	Paper shipping sacks	Million sacks..	461.2	75.9	296.1	30.6
265001	Paperboard boxes and containers	.....	(X)	86.3	(X)	[1]
340001	Metal containers	.....	(X)	175.7	(X)	111.4
970099	All other materials, containers, and supplies	.....	(X)	455.4	(X)	[1]333.0
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	47.4	(X)	25.1
	INDUSTRY 2048, PREPARED FEEDS, N.E.C.					
	Materials, ingredients, containers, and supplies	.....	(NA)	6,697.6	(NA)	3,559.8
011111	Wheat	Million bu.....	*43.4	111.3	r25.2	r44.0
011521	Corn		440.8	1,091.4	403.0	561.3
011931	Oats		45.6	70.1	58.7	57.0
011913	Barley		38.5	75.5	46.4	58.8
011961	Sorghum grain	Million bu.....	*58.8	133.1	112.3	153.1
204110	Wheat flour	1,000 cwt.....	2,834.3	12.8	r6,777.2	r22.9
204123	Wheat germ	1,000 s. tons..	40.9	4.1	r79.7	r3.4
206011	Sugar (cane and beet) in terms of sugar solids	1,000 cwt.....	*1,549.6	15.0	4,915.3	24.3
207003	Fats and oils for use in flour and prepared flour mixes	Million lb.....	21.9	3.2	(D)	(D)
207004	Fats and oils used in animal feeds	Million lb.....	800.8	126.8	768.4	55.7
207441	Cottonseed cake and meal	1,000 s. tons..	944.2	160.6	1,105.3	101.9
207521	Soybean cake and meal		6,325.6	1,334.2	6,461.0	731.8
207631	Other oilseed cake and meal		180.4	27.6	252.0	19.8
204893	Alfalfa meal, excluding alfalfa hay	1,000 s. tons..	1,122.7	103.5	1,415.0	73.2
204135	Corn meal	1,000 cwt.....	**2,441.1	11.2	16,909.2	55.0
204133	Hominy feed and meal	1,000 s. tons..	439.9	40.3	543.4	29.4
207736	Fish meal and solubles		229.0	80.4	388.3	65.6
204607	Corn gluten feed and meal		585.5	93.1	740.7	62.0
	Millfeed and screenings:					
204122	Wheat		2,722.1	249.3	r2,507.7	r132.3
207522	Soybean		291.0	25.0		
204161	Other millfeed and screenings		1,300.6	79.4		
207721	Meat meal and tankage	1,000 s. tons..	1,427.2	311.0	1,529.4	191.7
206311	Molasses	1,000 cwt.....	28,650.0	80.7	(X)	(Z)
208249	Brewers' and distillers' grains	1,000 s. tons..	510.1	64.7	526.7	34.4
287321	Urea		290.2	38.5	(D)	(D)

See footnotes at end of table

Table 7. **Materials Consumed by Kind: 1977 and 1972** – Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2048, PREPARED FEEDS, N.E.C.--Con.					
	Microingredients:					
283301	Vitamins	1,000 s. tons	(X)	97.7		
283302	Drugs and antibiotics		(X)	168.1		
283304	All other microingredients, including trace minerals		(X)	113.7	(X)	158.0
283305	Minerals (except trace mineral), including calcium, phosphorous, and salt		(X)	181.0		
204801	Supplements and concentrates (mixture of feed ingredients)	1,000 s. tons	(X)	28.7	(X)	44.0
229921	Burlap bags, new	Million bags	*6.9	2.3	32.7	9.8
239301	Cotton bags		*2.2	.7	3.2	1.0
239302	Polypropylene bags (textile type)	Million bags	62.2	16.7	(X)	(Z)
264338	Paper shipping sacks	Million sacks	*369.9	51.7	477.9	38.0
265001	Paperboard boxes and containers		(X)	6.5	(X)	(Z)
970099	All other materials, ingredients, containers, and supplies		(X)	621.0	(X)	359.1
972000	Materials, ingredients, containers, and supplies, n.s.k.[2]		(X)	1,043.9	(X)	449.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. r Revised. (X) Not applicable. (Z) Less than 50 thousand dollars or less than half the unit of measure specified.

[1] For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2] Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[3] For 1977, material code 204010 was included with material code 970099 to avoid disclosing operations of individual companies.

[4] For 1977, material code 011111 was included with material code 970099.

[5] For 1972, material codes 206311, 283305, 239302, and 265001 were included with material code 970099.

Bakery Products

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DESCRIPTION OF INDUSTRIES

BAKERY PRODUCTS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title	
2051	Bread, Cake, and Related Products
2052	Cookies and Crackers

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2051, BREAD, CAKE, AND RELATED PRODUCTS

This industry comprises establishments primarily engaged in the manufacture of bread, cakes, and other "perishable" bakery products. Establishments manufacturing bakery products for sale primarily through one or more nonbaking retail outlets are included in this industry. Establishments primarily engaged in the manufacture of producing "dry" bakery products, such as biscuits, crackers, and cookies are classified in industry 2052. Establishments producing bakery products primarily for direct sale on the premises to household consumers are classified in retail trade industry 5462.

The total value of shipments for establishments classified in the Bread, Cake, and Related Products industry amounted to $9,275 million in 1977, an increase of 51 percent from 1972. The value of shipments of products classified as primary to the industry was $7,966 million, an increase of 54 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were bread, white, wheat, and rye, including frozen, for which shipments increased 43 percent, and rolls, bread stuffing, and bread crumbs, including frozen, for which shipments increased 83 percent. Value added by manufacture, at $5,370 million in 1977, was 53 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 178.0 thousand employees, a decrease of 8 percent from 1972. The leading States in employment were California, New York, Pennsylvania, and Texas, accounting for approximately 30 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

INDUSTRY 2052, COOKIES AND CRACKERS

This industry comprises establishments primarily engaged in the manufacture of cookies, crackers, pretzels, and similar "dry" bakery products. Establishments primarily engaged in the manufacture of "perishable" bakery products are classified in industry 2051.

The total value of shipments for establishments classified in the Cookies and Crackers industry amounted to $2,961 million in 1977, an increase of 68 percent from 1972. The value of shipments of products classified as primary to the industry was $2,812 million, an increase of 64 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $1,696 million in 1977, was 66 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 43.8 thousand employees, an increase of 7 percent from 1972. The leading States in employment were Illinois, Pennsylvania, North Carolina, and Georgia, accounting for approximately 45 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 15 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets		End-of-year inventories (million dollars)	Ratios	
	Companies[2] (no.)	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				New capital expenditures (million dollars)	Gross value of fixed assets (million dollars)		Specialization (percent)	Coverage (percent)
INDUSTRY 2051, BREAD, CAKE, AND RELATED PRODUCTS															
1977 Census--	2 549	3 062	1 117	178.0	2 335.8	97.4	191.7	1 152.8	5 370.4	3 909.0	9 274.9	280.4	(NA)	235.1	99	98
1976 ASM----	(NA)	(NA)	(NA)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	191.4	1 799.5	109.7	218.4	917.9	3 599.7	3 085.0	6 679.7	143.8	1 942.6	173.4	(NA)	(NA)
1972 Census--	2 801	3 323	1 379	193.5	1 692.2	109.6	219.3	876.2	3 518.1	2 615.0	6 132.0	170.6	1 870.6	137.9	98	99
1971 ASM----	(NA)	(NA)	(NA)	195.7	1 633.8	111.0	223.2	831.8	3 208.8	2 507.1	5 716.7	169.2	1 809.8	131.6	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	202.9	1 572.2	117.0	235.1	792.1	3 090.5	2 459.8	5 549.0	149.5	1 734.6	141.6	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	221.0	1 548.7	126.2	255.4	790.9	3 041.7	2 467.8	5 508.3	137.4	1 707.8	147.6	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	215.5	1 456.8	122.3	250.8	740.2	2 878.8	2 357.4	5 234.6	133.9	1 592.7	142.6	(NA)	(NA)
1967 Census--	3 445	4 042	1 608	221.7	1 414.0	125.3	252.3	710.8	2 753.0	2 349.5	5 102.6	127.9	1 553.8	139.1	97	99
1966 ASM----	(NA)	(NA)	(NA)	231.8	1 419.6	127.9	266.1	698.8	2 658.4	2 349.0	5 007.2	148.6	(NA)	130.0	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	235.5	1 355.6	130.0	266.4	671.6	2 500.0	2 209.4	4 709.1	142.0	(NA)	129.6	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	234.2	1 330.7	127.3	272.5	658.0	2 492.2	2 159.0	4 618.2	115.0	1 402.6	131.0	(NA)	(NA)
1963 Census--	4 339	5 010	1 904	237.0	1 300.3	129.9	267.6	645.7	2 403.8	2 103.1	4 506.0	95.3	1 318.9	130.1	98	99
INDUSTRY 2052, COOKIES AND CRACKERS															
1977 Census--	263	324	172	43.8	530.2	34.0	67.0	372.2	1 695.9	1 265.3	2 960.5	85.6	(NA)	172.0	94	94
1976 ASM----	(NA)	(NA)	(NA)	41.9	482.8	32.4	64.2	334.7	1 557.2	1 166.0	2 718.2	50.5	683.4	157.4	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	41.0	425.0	31.5	62.9	295.3	1 409.5	1 269.3	2 671.0	39.7	648.5	146.3	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	38.9	375.7	30.2	60.3	261.7	1 150.5	1 188.1	2 331.0	59.9	605.5	148.8	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	41.9	365.5	32.8	65.7	259.3	1 032.0	874.0	1 898.2	36.2	547.5	106.9	(NA)	(NA)
1972 Census--	257	315	177	41.1	336.9	33.0	65.4	244.8	1 018.9	742.2	1 763.5	36.7	526.5	89.0	98	95
1971 ASM----	(NA)	(NA)	(NA)	41.2	298.0	32.5	63.6	208.5	932.0	714.6	1 640.5	24.4	489.1	90.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	42.4	287.6	34.0	66.9	201.9	871.4	667.8	1 532.7	21.7	474.0	82.5	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	43.8	275.7	35.7	68.7	194.5	791.0	658.2	1 453.0	19.5	468.8	76.9	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	42.2	261.3	34.1	67.7	189.7	785.0	636.6	1 421.4	26.8	457.2	74.1	(NA)	(NA)
1967 Census--	286	348	200	42.5	250.8	34.2	67.8	180.7	741.6	623.7	1 363.8	24.0	454.5	74.0	97	93
1966 ASM----	(NA)	(NA)	(NA)	42.5	234.4	34.1	67.5	167.2	712.7	620.2	1 327.3	33.2	(NA)	73.7	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	42.4	220.0	33.9	66.8	158.5	673.4	563.7	1 235.6	30.9	(NA)	64.9	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	42.2	215.3	33.4	67.2	154.0	656.0	540.8	1 197.8	15.3	385.6	61.7	(NA)	(NA)
1963 Census--	286	356	208	43.2	213.0	34.1	68.0	150.9	627.0	523.3	1 150.1	26.4	373.4	61.6	97	95

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2051, BREAD, CAKE, AND RELATED PRODUCTS										
1977 Census--	13 125	(NA)	54	1 968	6.01	42	67	(NA)	30 176	43	28.01
1976 ASM----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1975 ASM----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1974 ASM----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1973 ASM----	9 401	10 149	57	1 991	4.20	46	73	29	18 807	49	16.48
1972 Census--	8 745	9 667	56	2 000	3.99	42	70	30	18 181	48	16.04
1971 ASM----	8 348	9 247	56	2 010	3.72	43	72	31	16 396	50	14.37
1970 ASM----	7 748	8 549	57	2 009	3.36	44	72	31	15 231	50	13.14
1969 ASM----	7 007	7 727	57	2 023	3.09	44	72	31	13 763	50	11.90
1968 ASM----	6 760	7 390	56	2 050	2.95	45	72	30	13 358	50	11.47
1967 Census--	6 377	7 008	56	2 013	2.81	46	73	30	12 417	51	10.91
1966 ASM----	6 124	(NA)	55	2 080	2.62	46	75	(NA)	11 468	53	9.99
1965 ASM----	5 756	(NA)	55	2 049	2.52	46	75	(NA)	10 615	54	9.38
1964 ASM----	5 681	5 988	54	2 140	2.41	46	75	30	10 641	53	9.14
1963 Census--	5 486	5 564	54	2 060	2.41	46	75	29	10 142	54	8.98
	INDUSTRY 2052, COOKIES AND CRACKERS										
1977 Census--	12 119	(NA)	77	1 969	5.55	42	60	(NA)	38 763	31	25.30
1976 ASM----	11 522	16 310	77	1 981	5.21	42	60	25	37 164	31	24.25
1975 ASM----	10 365	15 817	76	1 996	4.69	47	63	24	34 378	30	22.40
1974 ASM----	9 658	15 565	77	1 996	4.33	50	67	25	29 575	32	19.07
1973 ASM----	8 723	13 066	78	2 003	3.94	46	65	28	24 630	35	15.70
1972 Census--	8 197	12 810	80	1 981	3.74	42	61	29	24 790	33	15.57
1971 ASM----	7 233	11 871	78	1 956	3.27	43	61	29	22 621	31	14.65
1970 ASM----	6 783	11 179	80	1 967	3.01	43	62	30	20 551	33	13.02
1969 ASM----	6 294	10 703	81	1 924	2.83	45	64	32	18 059	34	11.51
1968 ASM----	6 191	10 834	80	1 985	2.80	44	63	32	18 601	33	11.59
1967 Census--	5 901	10 694	80	1 982	2.66	45	64	33	17 449	33	10.93
1966 ASM----	5 502	(NA)	80	1 979	2.47	46	64	(NA)	16 730	32	10.55
1965 ASM----	5 188	(NA)	79	1 970	2.37	45	63	(NA)	15 882	32	10.08
1964 ASM----	5 101	9 137	79	2 011	2.29	45	63	32	15 545	32	9.76
1963 Census--	4 930	8 643	78	1 994	2.21	45	64	32	14 513	33	9.22

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2051, BREAD, CAKE, AND RELATED PRODUCTS													
United States	-	**5 062**	**1 117**	**178.0**	**2 335.8**	**97.4**	**191.7**	**1 152.8**	**5 370.4**	**3 909.0**	**9 274.9**	**280.4**	**193.5**	**3 518.1**
New England Division:														
Maine	-	31	7	1.7	19.2	1.0	2.0	8.4	46.2	37.5	83.7	1.8	1.5	29.4
New Hampshire	-	15	3	0.4	5.6	0.2	0.4	2.0	10.7	8.3	19.0	0.4	(NA)	(D)
Vermont	E1	11	5	0.4	4.1	0.2	0.4	1.9	8.2	10.2	18.4	(D)	(NA)	(D)
Massachusetts	-	128	31	5.0	64.3	2.8	5.3	30.9	146.4	127.2	273.3	(D)	(NA)	(D)
Rhode Island	-	41	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Connecticut	-	57	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:														
New York	E1	376	85	13.3	172.6	7.7	15.0	88.5	403.0	315.4	718.3	12.5	16.7	288.2
New Jersey	-	140	47	5.6	73.2	3.3	6.5	39.9	205.9	158.1	363.9	15.8	6.9	141.1
Pennsylvania	-	246	86	12.9	168.7	7.3	14.3	86.1	386.6	267.6	653.9	14.7	14.3	246.7
East North Central Division:														
Ohio	-	139	59	10.3	127.6	5.7	11.4	70.8	334.1	219.9	554.0	20.2	12.3	226.5
Indiana	-	49	19	3.7	47.2	1.9	3.9	23.1	103.7	82.2	185.6	5.8	(NA)	(D)
Illinois	-	148	59	10.1	144.9	5.5	11.9	75.5	311.8	241.7	553.4	11.4	11.7	237.0
Michigan	-	117	38	6.0	84.6	3.6	6.8	47.0	194.0	129.1	322.6	(D)	7.3	154.2
Wisconsin	-	53	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West North Central Division:														
Minnesota	-	61	25	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Iowa	-	40	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	40.6
Missouri	-	58	24	5.1	72.6	2.9	5.4	40.3	149.0	105.9	254.9	7.1	5.5	101.8
North Dakota	-	19	5	0.6	6.5	0.3	0.5	2.9	16.8	7.6	24.4	(D)	(NA)	(D)
South Dakota	-	14	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Nebraska	-	18	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Kansas	-	30	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:														
Delaware	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Maryland	-	58	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
District of Columbia	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Virginia	-	38	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West Virginia	-	20	10	1.5	19.7	0.8	1.9	10.4	53.4	42.6	96.1	2.3	1.8	34.5
North Carolina	-	54	34	6.0	64.4	3.1	6.4	29.2	144.2	102.1	246.3	7.4	6.6	105.4
South Carolina	-	13	10	2.0	24.2	1.2	2.4	12.2	59.7	59.1	118.9	2.7	1.7	25.4
Georgia	-	46	23	4.9	60.7	2.2	4.1	23.5	144.0	97.7	241.7	7.0	4.5	74.8
Florida	E1	124	42	6.4	78.9	3.4	6.9	36.2	160.6	120.9	281.5	7.1	(NA)	(D)
East South Central Division:														
Kentucky	-	29	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Tennessee	-	45	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Alabama	-	33	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Mississippi	-	18	11	1.2	13.4	0.5	0.9	4.9	28.9	26.6	55.5	1.6	1.4	25.2
West South Central Division:														
Arkansas	-	24	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Louisiana	-	43	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Oklahoma	-	29	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Texas	-	144	61	10.6	125.8	6.0	11.3	59.4	286.5	233.4	519.8	(D)	(NA)	(D)
Mountain Division:														
Montana	-	16	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Idaho	-	10	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Colorado	-	48	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
New Mexico	E1	21	5	0.7	7.5	0.3	0.7	3.3	16.9	15.9	32.8	(D)	0.7	11.4
Arizona	-	26	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Utah	-	16	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Nevada	E2	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	-	38	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Oregon	-	35	13	1.6	27.3	0.8	1.6	13.5	61.6	39.5	101.2	14.9	(NA)	(D)
California	-	287	105	16.8	261.7	8.9	17.1	130.6	598.8	366.2	964.7	37.1	18.3	385.0
Hawaii	-	20	6	0.7	9.1	0.4	0.7	4.6	18.2	11.0	29.1	0.5	0.6	10.5
Industry 2051-12, Wholesale Bakeries														
United States	-	**2 900**	**976**	**160.1**	**2 107.2**	**84.5**	**166.7**	**986.3**	**4 892.4**	**3 458.2**	**8 348.1**	**256.7**	**167.7**	**3 073.1**
New England Division:														
Maine	-	31	7	1.7	19.2	1.0	2.0	8.4	46.2	37.5	83.7	1.8	EE	(D)
New Hampshire	-	15	3	0.4	5.6	0.2	0.4	2.0	10.7	8.3	19.0	0.4	CC	(D)
Vermont	E1	11	5	0.4	4.1	0.2	0.4	1.9	8.2	10.2	18.4	(D)	BB	(D)
Massachusetts	E1	122	25	4.1	53.9	2.1	4.1	23.2	125.5	102.2	227.6	6.2	FF	(D)
Rhode Island	E1	37	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Connecticut	-	54	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Middle Atlantic Division:														
New York	E1	365	77	12.6	163.7	7.2	14.0	81.8	387.7	302.4	690.1	11.6	14.5	260.4
New Jersey	-	137	44	5.4	71.3	3.2	6.2	38.7	203.0	155.0	357.9	15.5	5.4	119.7
Pennsylvania	-	231	73	11.3	149.7	6.2	12.2	71.3	356.5	235.6	591.9	14.3	12.0	214.8
East North Central Division:														
Ohio	-	128	49	9.1	113.1	4.8	9.6	59.3	303.4	195.2	498.7	17.7	10.8	200.6
Indiana	-	47	17	3.5	45.4	1.8	3.6	22.1	97.6	79.5	176.8	5.7	FF	(D)
Illinois	-	140	51	9.0	129.4	4.7	10.2	64.3	274.7	214.3	489.0	9.9	9.6	193.1
Michigan	-	110	31	5.1	72.0	3.1	5.4	37.8	171.3	105.6	276.5	6.1	5.5	118.9
Wisconsin	-	47	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2051-12, Wholesale Bakeries—Con.													
West North Central Division:													
Minnesota	-	51	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Iowa	-	37	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Missouri	-	54	21	4.6	66.1	2.5	4.6	34.7	137.2	93.9	231.1	6.5	4.6	88.6
North Dakota	-	17	5	0.6	6.3	0.2	0.5	2.7	16.5	7.5	23.9	1.1	CC	(D)
South Dakota	-	13	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Nebraska	-	16	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Kansas	-	26	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
South Atlantic Division:													
Delaware	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Maryland	-	50	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
District of Columbia	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Virginia	-	36	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
West Virginia	-	20	10	1.5	19.7	0.8	1.9	10.4	53.4	42.6	96.1	2.3	1.7	33.9
North Carolina	-	48	29	5.5	60.3	2.8	5.7	26.8	136.5	93.3	229.8	6.5	FF	(D)
South Carolina	-	13	10	2.0	24.2	1.2	2.4	12.2	59.7	59.1	118.9	2.7	EE	(D)
Georgia	-	45	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Florida	E1	120	38	6.0	75.5	3.2	6.4	33.7	148.9	104.5	253.2	6.8	FF	(D)
East South Central Division:													
Kentucky	-	29	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Tennessee	-	43	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Alabama	-	32	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Mississippi	-	17	10	1.1	13.2	0.5	0.9	4.7	28.3	26.2	54.5	1.6	EE	(D)
West South Central Division:													
Arkansas	-	22	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Louisiana	-	43	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Oklahoma	-	28	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Texas	-	139	56	9.8	116.5	5.3	9.8	51.5	266.5	212.3	478.8	13.0	FF	(D)
Mountain Division:													
Montana	-	16	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Idaho	-	10	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Colorado	-	44	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
New Mexico	E1	21	5	0.7	7.5	0.3	0.7	3.3	16.9	15.9	32.8	(D)	0.7	11.3
Arizona	-	23	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Utah	-	15	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Nevada	E2	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:													
Washington	-	37	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Oregon	-	32	10	1.4	23.3	0.7	1.2	10.2	51.2	30.2	81.4	(D)	EE	(D)
California	-	273	93	14.0	219.5	7.2	13.9	103.8	512.0	287.9	799.5	34.3	15.3	320.7
Hawaii	-	19	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.9
Industry 2051-13, Grocery Chain Bakeries													
United States	-	**100**	**87**	**12.3**	**174.7**	**10.0**	**19.8**	**134.6**	**370.9**	**386.9**	**755.9**	**14.2**	**16.6**	**337.1**
New England Division:													
Massachusetts	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Rhode Island	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Connecticut	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Middle Atlantic Division:													
New York	-	6	5	0.4	6.2	0.4	0.6	5.0	11.4	10.4	21.6	0.6	EE	(D)
Pennsylvania	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East North Central Division:													
Ohio	-	6	6	0.8	12.5	0.7	1.4	9.8	23.2	21.7	44.9	2.2	0.8	15.4
Illinois	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	28.5
Michigan	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Wisconsin	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West North Central Division:													
Minnesota	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Missouri	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:													
Maryland	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Virginia	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
North Carolina	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Florida	-	4	4	0.3	3.4	0.3	0.5	2.4	11.8	16.5	28.2	(D)	0.6	13.7
East South Central Division:													
Tennessee	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:													
Texas	-	5	5	0.8	9.3	0.7	1.6	7.9	19.9	21.1	41.0	0.8	0.7	9.5
Mountain Division:													
Colorado	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pacific Division:													
California	-	10	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2051-16, Retail Multioutlet Bakeries													
United States	-	62	54	5.5	54.0	3.0	5.3	32.0	107.0	64.0	170.9	9.5	8.1	119.8
Middle Atlantic Division:													
New York	-	5	3	0.3	2.7	0.2	0.3	1.7	3.9	2.7	6.6	0.3	(NA)	(NA)
Pennsylvania	-	10	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East North Central Division:														
Ohio	-	5	4	0.4	2.1	0.2	0.3	1.7	7.5	3.0	10.5	(D)	(NA)	(NA)
Illinois	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:														
Minnesota	-	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Maryland	-	4	4	0.4	3.1	0.3	0.4	2.2	6.4	3.0	9.4	(D)	(NA)	(NA)
Pacific Division:														
Washington	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDUSTRY 2052, COOKIES AND CRACKERS														
United States	-	324	172	43.8	530.2	34.0	67.0	372.2	1 695.9	1 265.3	2 960.5	85.6	41.1	1 018.9
New England Division:														
Massachusetts	-	6	4	0.2	2.7	0.1	0.3	1.3	4.7	4.7	9.3	(D)	(NA)	(D)
Middle Atlantic Division:														
New York	E1	35	11	1.1	15.3	0.8	1.6	8.6	32.6	26.1	58.8	1.0	1.3	22.5
New Jersey	-	14	8	3.8	50.6	3.0	6.0	36.9	162.5	131.2	292.7	5.1	4.9	139.1
Pennsylvania	-	51	22	5.1	66.4	4.3	8.5	52.0	200.7	139.1	340.1	8.9	5.1	137.8
East North Central Division:														
Ohio	-	12	8	2.2	30.3	2.0	4.2	26.0	109.1	77.2	185.9	3.0	2.4	66.6
Indiana	-	9	5	0.4	4.2	0.3	0.6	2.8	10.8	11.4	21.9	2.2	(NA)	(D)
Illinois	-	25	15	6.0	76.0	5.1	10.5	61.6	272.8	183.0	455.2	2.2	6.5	193.3
Michigan	-	11	7	1.3	15.0	1.1	1.9	11.1	37.1	46.7	83.5	(D)	1.4	20.4
Wisconsin	-	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West North Central Division:														
Minnesota	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Iowa	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	6.6
Missouri	-	13	6	0.8	8.3	0.6	1.3	5.7	31.8	26.0	57.8	1.7	0.8	22.3
South Dakota	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:														
Virginia	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
North Carolina	-	9	5	4.7	48.9	2.0	4.0	16.1	106.2	68.8	174.7	5.5	3.2	41.7
Georgia	-	11	9	4.1	48.0	3.5	7.0	37.5	169.4	128.4	299.2	10.1	3.4	93.7
Florida	E2	12	4	0.4	2.9	0.3	0.5	1.5	4.5	5.8	10.4	0.1	(NA)	(D)
East South Central Division:														
Kentucky	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Tennessee	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Alabama	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Arkansas	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Oklahoma	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Texas	-	12	7	1.2	14.7	1.1	2.2	12.5	59.4	33.2	92.9	(D)	(NA)	(D)
Mountain Division:														
Colorado	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
Washington	E1	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Oregon	-	6	5	1.0	13.2	0.8	1.4	9.2	54.2	31.2	85.7	0.8	(NA)	(D)
California	-	43	20	2.9	39.9	2.1	3.9	25.2	128.2	94.3	221.8	5.7	2.5	69.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. **Summary Statistics for the Industry: 1977**

[For explanation of terms, see appendix A]

Item	Unit of measure	Bread, cake, and related products (SIC 2051)				
		Total	Wholesale bakeries, including home service (SIC 2051-12)	Grocery chain bakeries (SIC 2051-13)	Retail multioutlet bakeries (SIC 2051-16)	Cookies and crackers (SIC 2052)
Primary product specialization ratio[1]	percent	99	(NA)	(NA)	(NA)	94
Coverage ratio[2]	do	98	(NA)	(NA)	(NA)	94
All establishments	number	3 062	2 900	100	62	324
With 1 to 19 employees	do	1 945	1 924	13	8	152
With 20 to 99 employees	do	561	481	39	41	92
With 100 employees or more	do	556	495	48	13	80
All employees, average for year	1,000	178.0	160.1	12.3	5.5	43.8
Payroll for year, all employees	mil. dol.	2 335.8	2 107.2	174.7	54.0	530.2
Production workers:						
Average for year	1,000	97.4	84.5	10.0	3.0	34.0
March	do	95.2	82.4	9.8	2.9	34.2
May	do	97.4	84.4	10.0	3.0	33.1
August	do	98.4	85.4	10.0	2.9	34.5
November	do	97.9	84.8	10.0	3.0	34.4
Hours	millions	191.7	166.6	19.8	5.3	67.0
January to March	do	46.1	40.0	4.8	1.3	16.1
April to June	do	47.9	41.6	5.0	1.4	16.6
July to September	do	48.7	42.3	5.1	1.3	17.2
October to December	do	49.0	42.7	4.9	1.4	17.2
Wages	mil. dol.	1 152.8	986.3	134.6	32.0	372.2
Cost of materials, etc.	do	3 909.0	3 458.2	386.9	64.0	1 265.3
Materials, parts, containers, etc., consumed	do	2 829.1	2 505.5	273.7	50.0	1 117.1
Resales	do	938.9	828.3	99.7	10.9	112.8
Fuels consumed	do	77.3	68.7	7.0	1.5	19.0
Purchased electric energy	do	58.1	50.5	6.2	1.4	14.9
Contract work	do	5.6	5.2	0.3	0.2	1.5
Value of shipments, including resales	do	9 274.9	8 348.1	755.9	170.9	2 960.5
Value of resales	do	1 267.1	1 127.6	122.3	17.2	138.4
Value added by manufacture	do	5 370.4	4 892.4	370.9	107.0	1 695.9
Manufacturers' inventories:						
Beginning of year	do	220.6	195.2	19.9	5.4	161.9
Finished products	do	22.0	19.7	1.8	0.6	74.7
Work in process	do	2.1	1.7	0.3	0.2	1.2
Materials, supplies, fuel, etc.	do	196.4	173.9	17.9	4.7	86.0
End of year	do	235.1	209.1	20.4	5.6	172.0
Finished products	do	25.0	21.9	2.5	0.6	73.7
Work in process	do	3.7	2.1	1.4	0.2	3.0
Materials, supplies, fuel, etc.	do	206.4	185.1	16.5	4.8	95.3
Capital expenditures for plant and equipment	do	303.8	277.3	16.8	9.7	88.7
New capital expenditures	do	280.4	256.7	14.2	9.5	85.6
New buildings and other structures	do	52.2	48.6	2.8	0.8	26.1
New machinery and equipment	do	228.2	208.1	11.4	8.7	59.4
Used capital expenditures	do	23.4	20.7	2.6	0.2	3.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Bread, cake, and related products (SIC 2051)		Cookies and crackers (SIC 2052)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:				
Cost of purchased services for repair of--				
Buildings and other structures	12.2	8	3.0	5
Response coverage ratio[2] (percent)	60.7	(X)	65.9	(X)
Machinery	59.1	9	12.9	6
Response coverage ratio[2] (percent)	70.3	(X)	62.7	(X)
Cost of purchased communication services	30.0	8	(3.1)	25
Response coverage ratio[2] (percent)	64.4	(X)	63.3	(X)
Rental payments	81.8	8	(23.6)	38
Buildings and other structures	43.8	4	(11.2)	33
Machinery and equipment	(38.1)	18	(12.5)	43
Supplemental labor costs	458.3	1	120.1	1
Legal costs	194.7	2	50.2	2
Voluntary costs	263.6	2	69.9	2
Gross value of depreciable assets:				
Buildings and other structures:				
Beginning of year	567.6	3	228.4	2
New capital expenditures	51.8	7	23.7	3
Used capital expenditures	(6.7)	17	(5.5)	81
Retirements	(13.0)	25	1.7	8
End of year	613.0	3	255.9	3
Machinery and equipment:				
Beginning of year	1,647.8	1	480.8	2
New capital expenditures	239.9	5	59.2	4
Automobiles, trucks, etc., for highway use[3]	(30.6)	65	(3.6)	(A)
Computers and peripheral data processing equipment[3]	(0.8)	(A)	(0.1)	(A)
All other[3]	168.5	12	(54.6)	37
New machinery and equipment, n.s.k.[4]	(39.7)	50	(0.9)	(A)
Used capital expenditures	18.2	5	1.5	5
Retirements	80.1	7	16.6	3
End of year	1,825.8	1	524.9	2
Total gross value of depreciable assets:				
Beginning of year	2,215.3	1	709.2	2
New capital expenditures	291.6	5	82.9	3
Used capital expenditures	24.9	7	(7.1)	64
Retirements	93.1	9	18.4	3
End of year	2,438.8	1	780.8	2
Depreciation charges during 1977	178.3	3	46.4	3
Buildings and other structures	26.0	5	10.3	3
Machinery and equipment	152.3	3	36.1	3

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2051, BREAD, CAKE, AND RELATED PRODUCTS												
Total	-	**3 062**	**178.0**	**2 335.8**	**97.4**	**191.7**	**1 152.8**	**5 370.4**	**3 909.0**	**9 274.9**	**280.4**	**235.1**
Establishments with an average of—												
1 to 4 employees	E8	1 358	2.1	27.6	1.5	2.4	15.1	67.4	47.1	114.8	11.0	2.7
5 to 9 employees	E8	377	2.5	29.6	1.5	3.0	15.5	62.8	47.4	110.2	3.6	2.8
10 to 19 employees	E6	210	2.8	32.1	1.8	3.4	17.4	67.8	51.1	118.8	3.6	3.7
20 to 49 employees	E1	314	10.4	103.1	7.4	13.6	63.9	217.6	168.0	385.6	15.8	12.4
50 to 99 employees	-	247	17.5	202.3	11.2	22.5	117.4	453.8	377.2	831.1	35.1	24.6
100 to 249 employees	-	351	56.4	742.7	31.0	62.2	376.8	1 717.0	1 343.6	3 059.2	90.7	75.6
250 to 499 employees	-	168	(78.5)	(1 098.8)	(39.3)	(77.7)	(497.8)	(2 499.1)	(1 716.3)	(4 212.3)	(114.8)	(100.5)
500 to 999 employees	-	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	6	7.8	99.9	3.8	6.9	48.8	284.9	158.3	442.9	5.8	12.9
Covered by administrative records[2]	E0	1 647	5.4	65.5	3.4	6.2	33.4	144.9	108.7	253.6	7.8	6.3
Industry 2051-12, Wholesale Bakeries												
Total	-	**2 900**	**160.1**	**2 107.2**	**84.5**	**155.6**	**985.3**	**4 892.4**	**3 458.2**	**8 348.1**	**255.7**	**209.1**
Establishments with an average of—												
1 to 4 employees	E8	1 354	2.1	27.5	1.5	2.4	15.0	67.1	47.0	114.4	(18.0)	2.7
5 to 9 employees	E9	370	2.5	29.1	1.5	2.9	15.0	61.9	46.7	108.6	(D)	2.8
10 to 19 employees	E6	200	2.7	30.4	1.6	3.1	16.0	64.1	49.1	113.1	(D)	3.5
20 to 49 employees	E1	276	9.0	90.0	6.4	11.8	54.3	190.5	148.1	338.7	14.4	11.1
50 to 99 employees	-	205	14.4	166.7	9.0	18.1	92.0	378.6	308.6	687.5	(224.3)	20.4
100 to 249 employees	-	303	(129.5)	(1 763.5)	(64.4)	(128.2)	(793.9)	(4 130.2)	(2 858.6)	(6 985.7)	(D)	(168.7)
250 to 499 employees	-	156	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	-	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	1 647	5.4	65.5	3.4	6.2	33.4	144.9	108.7	253.6	7.8	6.3
Industry 2051-13, Grocery Chain Bakeries												
Total	-	**100**	**12.3**	**174.7**	**10.0**	**19.8**	**134.6**	**370.9**	**386.9**	**755.9**	**14.2**	**20.4**
Establishments with an average of—												
1 to 4 employees	-	3	(Z)	0.1	(Z)	(Z)	0.1	0.3	0.1	0.4	(0.7)	(Z)
5 to 9 employees	-	5	(Z)	0.4	(Z)	0.1	0.4	0.7	0.5	1.2	(D)	(Z)
10 to 19 employees	-	5	0.1	0.9	0.1	0.2	0.8	2.0	0.9	2.8	(D)	0.1
20 to 49 employees	-	13	0.5	6.1	0.4	0.8	4.7	14.5	11.8	26.3	(D)	0.6
50 to 99 employees	-	26	1.9	25.8	1.5	3.1	19.1	57.8	56.6	114.2	4.8	3.1
100 to 249 employees	-	38	6.1	89.1	5.0	10.3	70.9	188.2	194.7	382.4	5.5	9.5
250 to 499 employees	-	10	3.7	52.2	3.0	5.4	38.7	107.5	122.4	228.6	3.2	7.0
Industry 2051-16, Retail Multioutlet Bakeries												
Total	-	**62**	**5.5**	**54.0**	**3.0**	**5.3**	**32.0**	**107.0**	**64.0**	**170.9**	**9.5**	**5.6**
Establishments with an average of—												
1 to 4 employees	-	1	(Z)	(0.1)	(Z)	(Z)	(0.1)	(0.2)	(0.2)	(0.5)	(Z)	(Z)
5 to 9 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	-	5	0.1	0.8	0.1	0.2	0.6	1.8	1.1	2.8	0.2	0.1
20 to 49 employees	-	25	0.9	6.9	0.6	1.0	5.0	12.6	8.1	20.6	(9.3)	0.6
50 to 99 employees	-	16	1.1	9.8	0.7	1.3	6.2	17.4	12.0	29.4	(D)	1.0
100 to 249 employees	-	10	(3.4)	(36.4)	(1.7)	(2.9)	(20.1)	(75.1)	(42.6)	(117.6)	(D)	(3.9)
250 to 499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
INDUSTRY 2052, COOKIES AND CRACKERS												
Total	-	**324**	**43.8**	**530.2**	**34.0**	**67.0**	**372.2**	**1 695.9**	**1 265.3**	**2 960.5**	**85.6**	**172.0**
Establishments with an average of—												
1 to 4 employees	E9	79	0.1	1.3	0.1	0.2	0.9	4.1	3.2	7.4	0.1	0.4
5 to 9 employees	E9	38	0.3	2.9	0.2	0.4	2.1	8.6	6.4	15.1	0.3	0.8
10 to 19 employees	E7	35	0.5	5.6	0.4	0.8	3.9	15.4	11.8	27.2	1.1	1.6
20 to 49 employees	-	44	1.4	14.1	1.1	2.0	8.9	34.4	30.5	64.8	3.2	4.3
50 to 99 employees	-	48	3.4	36.8	2.6	4.7	22.1	101.4	79.0	179.1	6.7	13.6
100 to 249 employees	-	38	6.0	58.8	4.7	8.5	38.3	170.1	159.6	327.3	9.1	28.6
250 to 499 employees	-	17	6.1	69.1	5.1	10.6	46.4	200.3	198.4	401.7	14.0	22.7
500 to 999 employees	-	20	15.0	210.0	12.6	25.3	170.0	757.4	514.8	1 272.9	41.1	65.4
1,000 to 2,499 employees	-	3	(10.9)	(131.6)	(7.2)	(14.5)	(79.6)	(404.2)	(261.5)	(664.9)	(10.0)	(34.5)
2,500 employees or more	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	120	0.6	7.0	0.5	0.9	4.9	21.6	16.3	37.9	0.7	2.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2051	**Bread, cake, and related products:**										
	Entire industry	3 062	178.0	2 335.8	97.4	191.7	1 152.8	5 370.4	3 909.0	9 274.9	280.4
	Establishments with 75 percent specialization or more	2 995	175.9	2 316.3	96.0	189.2	1 140.4	5 327.4	3 842.8	9 165.1	269.6
20511	Bread, white, wheat, and rye (including frozen):										
	Establishments with this product class primary	618	104.0	1 434.7	52.3	104.4	664.0	3 210.0	2 322.6	5 529.2	160.9
	Establishments with 75 percent specialization or more in class	244	34.2	482.6	16.0	32.5	206.7	1 174.9	774.1	1 947.9	46.7
20512	Rolls, bread type (including frozen):										
	Establishments with this product class primary	172	20.0	241.5	11.0	22.1	123.1	598.8	385.0	983.7	34.2
	Establishments with 75 percent specialization or more in class	84	6.9	86.7	3.7	7.7	44.5	242.2	135.5	377.8	16.9
20513	Sweet yeast goods, except frozen:										
	Establishments with this product class primary	144	16.8	190.8	11.3	22.3	113.2	437.8	350.3	787.1	20.1
	Establishments with 75 percent specialization or more in class	70	4.4	46.6	3.1	6.3	27.7	95.7	79.7	175.4	4.9
20514	Soft cakes, except frozen:										
	Establishments with this product class primary	80	17.3	237.1	10.6	19.8	128.5	616.1	416.6	1 032.2	22.2
	Establishments with 75 percent specialization or more in class	35	5.9	85.6	3.8	7.1	47.2	241.1	162.0	402.7	9.2
20515	Pies, fruit and custard, except frozen:										
	Establishments with this product class primary	44	3.7	47.9	2.2	4.5	24.7	110.6	101.7	212.3	4.3
	Establishments with 75 percent specialization or more in class	26	2.0	26.3	1.0	2.1	11.1	61.7	48.1	109.8	(D)
20516	Pastries, except frozen:										
	Establishments with this product class primary	13	1.2	9.6	0.8	1.2	6.2	17.9	19.7	38.0	1.5
	Establishments with 75 percent specialization or more in class	6	0.3	2.3	0.3	0.4	1.8	3.7	3.5	7.3	0.3
20517	Doughnuts, cake type, baking powder leavened:										
	Establishments with this product class primary	11	0.5	5.1	0.4	0.8	3.8	9.9	12.7	22.6	0.7
	Establishments with 75 percent specialization or more in class	7	0.1	1.2	0.1	0.2	0.9	2.4	3.1	5.5	(D)
2052	**Cookies and crackers:**										
	Entire industry	324	43.8	530.2	34.0	67.0	372.2	1 695.9	1 265.3	2 960.5	85.6
	Establishments with 75 percent specialization or more	309	35.8	436.7	29.5	58.3	325.4	1 483.8	1 081.3	2 564.6	(D)
20521	Crackers, pretzels, biscuits, and related products:										
	Establishments with this product class primary	66	15.9	197.0	11.4	22.6	129.9	663.4	436.4	1 097.6	34.2
	Establishments with 75 percent specialization or more in class	53	6.7	82.1	5.5	11.0	58.8	258.4	189.6	445.7	(D)
20522	Cookies, wafers, and ice cream cones and cups:										
	Establishments with this product class primary	113	26.4	317.0	21.4	42.3	231.6	986.1	792.5	1 779.9	50.1
	Establishments with 75 percent specialization or more in class	93	11.8	124.9	8.9	16.5	74.1	305.4	301.0	604.5	16.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2051	Bread, cake, and related products.....1977..	9,274.8	7,787.2	94.9	1,392.7	99	7,965.9	7,787.2	178.8	98
	1972..	6,152.6	5,121.9	79.9	950.8	98	5,180.8	5,121.9	58.9	99
	1967..	5,102.6	4,273.9	110.6	718.1	97	4,320.6	4,273.9	46.7	99
2052	Cookies and crackers.....1977..	2,960.5	2,656.2	155.6	148.7	94	2,812.4	2,656.2	156.2	94
	1972..	1,763.5	1,623.0	41.6	98.9	98	1,713.3	1,623.0	90.3	95
	1967..	1,363.8	1,253.0	39.6	71.2	97	1,349.5	1,253.0	96.5	93

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Bread, cake, and related products (SIC 2051)	Cookies and crackers (SIC 2052)	Other industries
	Total	(X)	9,274.8	2,960.5	(X)
	Primary products	(X)	7,787.2	2,656.2	(X)
	Secondary products	(X)	94.9	155.6	(X)
	Miscellaneous receipts	(X)	1,392.7	148.7	(X)
2051-	Bread, cake, and related products	7,965.9	7,787.2	76.7	102.1
20511	Bread, white, wheat, and rye (including frozen)	3,500.7	3,473.8	(D)	(D)
20512	Rolls, bread type (including frozen)	1,679.6	1,597.1	(D)	(D)
20513	Sweet yeast goods, except frozen	640.4	630.8	(D)	(D)
20514	Soft cakes, except frozen	949.9	911.7	(D)	(D)
20515	Pies, fruit and custard, except frozen	297.1	291.2	(D)	(D)
20516	Pastries, except frozen	31.2	(D)	-	(D)
20517	Doughnuts, cake type, baking powder leavened	241.1	(D)	(D)	-
20510	Bread, cake, and related products, n.s.k	625.8	611.8	(D)	(D)
2052-	Cookies and crackers	2,812.4	51.5	2,656.2	104.7
20521	Crackers, pretzels, biscuits, and related products	1,168.9	4.8	1,121.8	42.3
20522	Cookies, wafers, and ice cream cones and cups	1,578.4	46.6	1,469.7	62.1
20520	Cookies and crackers, n.s.k	65.1	-	64.8	.3
	Other shipments by 4-digit product group:				
2024-	Ice cream and frozen desserts	(X)	-	-	(X)
2033-	Canned fruits and vegetables	(X)	(D)	-	(X)
2038-	Frozen specialties	(X)	(D)	(D)	(X)
2043-	Cereal breakfast foods	(X)	-	(D)	(X)
2045-	Blended and prepared flour	(X)	(D)	(D)	(X)
2065-	Confectionery products	(X)	(D)	27.8	(X)
2099-	Food preparations, n.e.c	(X)	(D)	(D)	(X)
	Miscellaneous receipts:				
93000 00	Contract work	(X)	.1	(D)	(X)
99980 98	Other miscellaneous receipts	(X)	124.9	(D)	(X)
99989 00	Resales	(X)	1,267.1	138.4	(X)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2051-	2026 Fluid milk	(D)
	2033 Canned fruits and vegetables	(D)
	2038 Frozen specialties	(D)
	2047 Dog, cat, and other pet food	(D)
	2065 Confectionery products	(D)
	2099 Food preparations, n.e.c	(D)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products--Con.	
2052-	2038 Frozen specialties	(D)
	2043 Cereal breakfast foods	(D)
	2045 Blended and prepared flour	(D)
	2065 Confectionery products	(D)
	2099 Food preparations, n.e.c	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
	BREAD, CAKE, AND RELATED PRODUCTS						
2051- --	Total	.....	(NA)	(X)	7,965.9	(X)	5,180.8
20511 --	Bread, white, wheat, and rye, including frozen	Million lb. baked weight.	(NA)	10,882.9	3,500.7	11,418.7	2,454.8
20511 11	White pan bread		223	7,321.6	2,197.2	8,657.3	1,733.8
	Variety breads:						
20511 13	White hearth, including French, Italian, etc		193	879.9	308.5	549.7	162.6
20511 15	Whole wheat, cracked wheat, and other dark wheat breads		123	1,270.2	468.5	777.7	193.6
20511 17	Rye, including pumpernickel		117	387.3	157.7	426.0	117.9
20511 28	Other variety breads (raisin, potato, salt-rising, salt-free, canned, etc.)		90	412.7	172.1	339.0	99.7
20511 00	Bread, white, wheat, and rye, n.s.k		(NA)	[2]611.2	196.7	[2]669.0	147.2
20512 --	Rolls, bread stuffing, and bread crumbs, including frozen		(NA)	4,124.1	1,679.6	3,460.7	917.5
	Rolls, bread-type:						
20512 33	Hamburger and weiner rolls		185	2,658.0	968.8	2,355.8	575.1
20512 35	Brown and serve rolls		79	263.5	115.6	376.2	109.8
20512 36	English muffins		39	334.8	164.5		
20512 37	Hearth rolls		71	136.5	79.9	586.3	188.9
20512 38	Other bread-type rolls (Kaiser, except hearth-type, Parker House, etc.)		112	257.3	123.0		
20512 41	Bread stuffing, croutons, and bread crumbs		41	229.5	128.3	114.4	34.6
20512 00	Rolls, bread stuffing, bread crumbs, including frozen, n.s.k.		(NA)	[2]244.5	99.5	[2]28.0	9.1
20513 --	Sweet yeast goods, except frozen		(NA)	944.8	640.4	911.8	430.3
20513 13	Yeast-raised doughnuts		131	222.5	170.0	228.8	90.1
20513 98	All other types of sweet yeast goods, including sweet rolls and coffee cake		141	596.0	384.8	602.3	307.9
20513 00	Sweet yeast goods, n.s.k		(NA)	126.3	85.6	[2]80.7	32.3
20514 --	Soft cakes, except frozen		(NA)	1,224.3	949.9	1,120.5	552.0
20514 13	Snack cakes		39	804.1	599.9		
20514 15	Fruit cakes, holiday type		35	24.7	28.0	1,120.5	552.0
20514 19	All other soft cakes, including pound, sheet, cheese, etc		135	318.3	257.5		
20514 00	Soft cakes, except frozen, n.s.k		(NA)	[2]77.2	64.5		
20515 --	Pies (fruit and custard) except frozen		(NA)	498.0	297.1	574.5	224.2
20515 13	Snack pies		44	286.9	157.0		
20515 19	All other fruit and custard pies		50	182.1	122.0	574.5	224.2
20515 00	Pies (fruit and custard) except frozen, n.s.k		(NA)	[2]29.0	18.1		
20516 --	Pastries:						
20516 11	Pastries, except frozen, all types of baking powder leavened only, including cream puffs, eclairs, lady fingers, French pastry, puff pastry, etc		36	(X)	31.2	(X)	49.5
20517 --	Doughnuts (cake type):						
20517 11	Doughnuts, except frozen, cake type (baking-powder leavened)	Million lb. baked weight.	83	354.1	241.1	388.9	179.3
20510 00	Bread, cake, and related bakery products, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	372.3	(X)	252.1
20510 02	Bread, cake, and related bakery products, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	253.6	(X)	121.1
2052- --	COOKIES AND CRACKERS						
	Total	.....	(NA)	(NA)	2,812.4	(NA)	1,713.3
20521 --	Crackers and pretzels	Million lb baked wt.	(NA)	1,985.3	1,168.9	1,674.6	715.1
20521 23	Graham crackers		12	132.0	89.3	149.5	52.8
20521 25	Saltines		16	441.0	268.8	573.4	214.5
20521 33	Cracker meal and crumbs		12	73.1	35.4	89.4	20.2
20521 35	Cracker sandwiches made from crackers produced in the reporting establishment		6	80.1	73.1	116.3	64.2
20521 98	Other crackers and related products (sponge, sprayed varieties, low-sugar-content biscuits, melba toast, etc.)[3]		34	1,071.4	603.2	569.0	284.6
20521 51	Pretzels		23	186.0	98.1	163.7	72.3
20521 00	Crackers and pretzels, n.s.k	Million lb baked wt.	(NA)	[2]1.7	1.0	[2]13.3	6.5
20522 --	Cookies and ice cream cones	.....	(NA)	(X)	1,578.4	(X)	976.4
20522 13	Sandwich cookies, made from cookies made in the reporting establishment	Million lb baked wt.	39	632.3	438.6	649.8	243.2

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
	COOKIES AND CRACKERS--Con.						
	Cookies and ice cream cones--Con.						
20522 15	Marshmallow cookies	Million lb baked wt.	18	82.3	67.4	166.6	73.5
20522 19	All other cookies and wafers, except wafers for making ice cream sandwiches		106	1,321.5	913.7	1,390.3	574.3
20522 35	Wafers for making ice cream sandwiches	Million lb baked wt.	6	63.8	28.8	62.4	15.3
20522 31	Ice cream cones and cups	Millions of cones.	11	4,464.1	53.9	[4]	35.9
20522 21	Toaster pastries	Million lb	5	104.4	55.2	62.5	28.1
20522 00	Other dry bakery products, n.s.k.		(NA)	(X)	20.8	(X)	6.1
20520 00	Cookies and crackers, n.s.k., typically for establishments with 15 employees or more (see note)		(NA)	(X)	27.2	(X)	15.1
20520 02	Cookies and crackers, n.s.k., typically for establishments with less than 15 employees (see note)		(NA)	(X)	37.9	(X)	6.7

Note: In the 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 14 employees were estimated from administrative record data rather than data actually collected from respondents. The employment cutoff used for administrative records for each industry and the shipments figures are included in the code ending with "002." In both the 1977 and 1972 Censuses of Manufactures, products not completely identified on the standard forms were coded in the appropriate product class (5 digits) followed by "00" or, in some cases, to the appropriate product group code (4 digits) followed by "0 00."

(NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]Quantity was estimated based on quantity-value relationship of other products in this product class.

[3]Biscuit mixes, made from flour milled in same establishment and made from purchased flour, are classified in product code 20415 56 and 20455 56. Likewise, refrigerated doughs made from flour milled in same establishment and from purchased flour are classified in product codes 20415 71 and 20455 71.

[4]Data were withheld because of significant reporting problems, primarily in measure of quantity.

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20511, BREAD, WHITE, WHEAT, AND RYE (INCLUDING FROZEN)[1]		
United States	3,500.7	2,454.8
New England Division:		
Maine	24.0	19.6
Massachusetts	73.8	62.9
Rhode Island	14.3	FF
Connecticut	107.8	53.8
Middle Atlantic Division:		
New York	230.1	190.7
New Jersey	93.9	74.4
Pennsylvania	225.6	167.0
East North Central Division:		
Ohio	189.0	146.2
Indiana	81.3	62.2
Illinois	206.7	162.4
Michigan	136.2	99.9
Wisconsin	70.4	41.9
West North Central Division:		
Minnesota	48.4	30.4
Iowa	49.1	34.1
Missouri	102.1	67.8
North Dakota	12.5	CC
Nebraska	23.2	15.5
Kansas	23.0	15.6
South Atlantic Division:		
Maryland	91.2	62.0
Virginia	58.1	37.4
West Virginia	47.3	25.6
North Carolina	97.4	74.7
South Carolina	38.2	18.0
Georgia	74.8	42.1
Florida	120.6	94.7
East South Central Division:		
Kentucky	40.3	23.0
Tennessee	106.1	61.6
Alabama	54.2	40.0
Mississippi	24.6	20.4
West South Central Division:		
Arkansas	27.5	12.6
Louisiana	72.8	50.7
Oklahoma	40.0	21.7
Texas	204.7	114.8
Mountain Division:		
Colorado	38.6	29.1
New Mexico	14.9	9.2
Arizona	24.5	31.1
Utah	21.9	11.9
Pacific Division:		
Washington	53.8	FF
Oregon	55.0	33.0
California	374.7	243.2
20512, ROLLS, BREAD TYPE (INCLUDING FROZEN)[2]		
United States	1,679.6	917.5
New England Division:		
Maine	18.1	8.5
Massachusetts	28.5	18.9
Rhode Island	16.2	CC
Connecticut	60.4	28.5
Middle Atlantic Division:		
New York	60.7	36.7
New Jersey	104.1	55.7
Pennsylvania	106.9	45.6
East North Central Division:		
Ohio	115.5	60.5
Indiana	57.9	28.0
Illinois	95.7	83.7
Michigan	50.1	34.9
Wisconsin	41.2	19.4
20512, ROLLS, BREAD TYPE (INCLUDING FROZEN)[2]--Con.		
West North Central Division:		
Minnesota	19.6	10.8
Iowa	17.6	8.8
Missouri	39.7	25.2
North Dakota	4.4	BB
Nebraska	18.1	7.2
Kansas	10.2	8.1
South Atlantic Division:		
Maryland	24.2	22.8
Virginia	29.7	17.0
West Virginia	18.6	10.7
North Carolina	58.0	26.7
South Carolina	21.3	8.4
Georgia	27.0	21.2
Florida	51.4	20.6
East South Central Division:		
Kentucky	14.1	7.4
Tennessee	39.4	28.0
Alabama	41.0	20.3
West South Central Division:		
Arkansas	25.2	EE
Louisiana	27.8	11.1
Oklahoma	15.4	EE
Texas	86.5	41.9
Mountain Division:		
Colorado	13.2	AA
Arizona	9.4	3.3
Utah	6.8	4.3
Pacific Division:		
Washington	25.1	FF
Oregon	20.7	33.0
California	191.7	243.2
Hawaii	5.0	CC
20513, SWEET YEAST GOODS, EXCEPT FROZEN		
United States	640.4	430.3
New England Division:		
Massachusetts	5.5	2.9
Connecticut	4.5	2.8
Middle Atlantic Division:		
New York	85.9	53.8
Pennsylvania	25.8	24.7
East North Central Division:		
Ohio	30.1	26.2
Indiana	18.1	5.8
Illinois	47.5	28.6
Michigan	22.9	19.0
Wisconsin	10.6	
West North Central Division:		
Minnesota	6.0	4.4
Iowa	3.2	4.4
Missouri	13.4	14.3
North Dakota	2.2	(NA)
South Atlantic Division:		
Maryland	11.4	9.1
Virginia	14.9	7.9
North Carolina	19.0	16.8
Georgia	37.3	18.7
Florida	16.7	8.4
East South Central Division:		
Tennessee	30.2	16.2
Alabama	14.2	6.0
West South Central Division:		
Louisiana	2.9	3.1
Texas	50.5	19.6
Mountain Division:		
Colorado	9.6	7.2

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** – Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20513, SWEET YEAST GOODS, EXCEPT FROZEN--Con.		
Pacific Division:		
Washington	17.1	5.1
Oregon	4.4	(NA)
California	65.3	37.4
20514, SOFT CAKES, EXCEPT FROZEN		
United States	949.9	552.0
New England Division:		
Massachusetts	23.0	19.0
Connecticut	10.5	BB
Middle Atlantic Division:		
New York	103.6	56.0
New Jersey	65.5	12.4
Pennsylvania	97.3	62.2
East North Central Division:		
Ohio	75.8	53.3
Indiana	6.6	7.9
Illinois	56.5	43.3
Michigan	37.2	25.3
Wisconsin	4.3	3.3
South Atlantic Division:		
Maryland	13.8	CC
Virginia	6.4	13.9
North Carolina	26.0	26.6
Georgia	48.1	26.2
East South Central Division:		
Tennessee	61.1	13.5
West South Central Division:		
Texas	41.1	20.0
Mountain Division:		
Colorado	10.1	5.5
Pacific Division:		
Washington	6.4	CC
California	93.7	GG
20515, PIES, FRUIT AND CUSTARD, EXCEPT FROZEN		
United States	297.1	224.2
Middle Atlantic Division:		
New York	17.8	17.4
Pennsylvania	47.1	30.4
East North Central Division:		
Ohio	21.8	18.4
Illinois	12.6	15.2
Michigan	10.8	11.3
West North Central Division:		
Minnesota	4.8	BB
South Atlantic Division:		
Maryland	10.2	7.8
North Carolina	13.9	6.9
East South Central Division:		
Tennessee	4.7	3.1
West South Central Division:		
Texas	10.3	5.6
Mountain Division:		
Colorado	4.1	3.4
California	26.5	FF
20516, PASTRIES, EXCEPT FROZEN		
United States	31.2	49.5
Middle Atlantic Division:		
New York	5.1	11.0
20517, DOUGHNUTS, CAKE TYPE, BAKING POWDER LEAVENED		
United States	241.1	179.3
Middle Atlantic Division:		
New York	9.2	10.6
New Jersey	10.9	11.7
Pennsylvania	3.4	7.1
East North Central Division:		
Ohio	22.9	13.9
Indiana	6.6	2.8
Illinois	5.5	12.0
Michigan	6.8	12.4
Wisconsin	5.5	6.7
West North Central Division:		
Iowa	4.8	1.0
Missouri	6.8	4.0
South Atlantic Division:		
Maryland	5.2	4.9
Virginia	3.8	1.8
Georgia	13.1	CC
West South Central Division:		
Texas	10.1	5.6
Mountain Division:		
Colorado	7.5	3.0
Utah	2.4	1.3
Pacific Division:		
Washington	7.0	BB
California	43.4	26.6
20521, CRACKERS, PRETZELS, BISCUITS, AND RELATED PRODUCTS		
United States	1,168.9	715.1
Middle Atlantic Division:		
New York	43.2	37.0
New Jersey	105.0	83.0
Pennsylvania	184.3	112.2
East North Central Division:		
Ohio	63.5	33.9
Illinois	136.7	100.9
South Atlantic Division:		
Georgia	127.3	87.8
Pacific Division:		
California	86.1	FF
20522, COOKIES, WAFERS, AND ICE CREAM CONES AND CUPS		
United States	1,578.4	976.4
New England Division:		
Massachusetts	7.8	CC
Middle Atlantic Division:		
New York	55.5	20.9
New Jersey	158.2	141.9
Pennsylvania	115.9	86.4
East North Central Division:		
Ohio	94.9	72.1
Indiana	13.2	CC
Illinois	290.9	207.5
Michigan	66.0	38.5
West North Central Division:		
Minnesota	3.0	1.7
Missouri	24.3	14.1

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** — Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments		Product class and geographic area	Value of product shipments	
	1977	1972		1977	1972
20522, COOKIES, WAFERS, AND ICE CREAM CONES AND CUPS--Con.			20522, COOKIES, WAFERS, AND ICE CREAM CONES AND CUPS--Con.		
South Atlantic Division:			West South Central Division:		
North Carolina	50.8	20.4	Texas	29.3	16.9
Georgia	165.6	80.1			
			Pacific Division:		
East South Central Division:			Oregon	37.3	22.6
Tennessee	71.0	50.9	California	118.3	67.7

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.

(NA) Not available.

[1]For 1972, individual product codes included in this product class differed significantly from prior years. Product shifting into or out of this product class represented more than 15 percent of total shipments at U.S. level.

[2]For 1972, product class 20512 was new. In prior years, figures were included in product class 20511.

Table 6c. Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2051-	Bread, cake, and related products	7,965.9	8,083.5	7,726.8	6,902.6	5,642.3	5,180.8	4,320.6	3,829.8
20511	Bread, white, wheat, and rye (including frozen)[2]	3,500.7	4,009.6	3,897.7	3,328.1	2,648.9	2,454.8	2,793.5	2,496.6
20512	Rolls, bread type (including frozen)[3]	1,679.6	1,598.4	1,480.3	1,255.7	1,032.0	917.5		
20513	Sweet yeast goods, except frozen	640.4	775.3	696.7	609.6	484.4	430.3	393.0	330.5
20514	Soft cakes, except frozen	949.9	811.6	729.6	698.5	578.4	552.0	478.6	438.0
20515	Pies, fruit and custard, except frozen	297.1	347.6	319.0	326.0	254.8	224.2	226.7	205.9
20516	Pastries, except frozen	31.2	(20.1)	(20.5)	(14.3)	38.5	49.5	51.2	51.2
20517	Doughnuts, cake type, baking powder leavened	241.1	259.6	282.8	244.9	201.2	179.3	164.0	141.4
20510	Bread, cake, and related products, n.s.k.	625.8	(261.3)	(300.2)	(425.5)	404.1	373.2	213.6	166.3
2052-	Cookies and crackers	2,812.4	2,656.8	2,585.9	2,268.4	1,889.4	1,713.3	1,349.5	1,137.6
20521	Crackers, pretzels, biscuits, and related products	1,168.9	1,195.3	1,102.1	934.9	782.8	715.1	494.0	450.2
20522	Cookies, wafers, and ice cream cones and cups	1,578.4	1,448.3	1,467.0	1,307.5	1,089.4	976.4	832.2	679.8
20520	Cookies and crackers, n.s.k.	65.1	(13.2)	(16.8)	(26.0)	17.2	21.8	23.3	7.6

n.s.k. Not specified by kind.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]For 1972 and later years, individual product codes included in this product class differed significantly from prior years. Products shifting into or out of this product class represented more than 15 percent of total shipments at U.S. level.

[3]For 1972, product class 20512 was new. In prior years, figures were included in product class 20511.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2051, BREAD, CAKE, AND RELATED PRODUCTS					
	Materials, ingredients, containers, and supplies	.....	(NA)	2,829.1	(NA)	1,957.8
	Wheat flour, except prepared flour mixes:					
204117	White bread-type flour	Million lb.	9,343.9	705.9		
204116	Cake-type flour		487.8	38.1	r10,086.2	r630.1
204118	Other wheat flour, including whole wheat and wheat gluten, but excluding prepared flour mixes		639.4	78.9		
	Prepared flour mixes:					
204557	Doughnut, cake, and yeast-type mixes		263.3	63.8		
204556	Bread-type, including franchise mixes		59.8	18.5	519.2	68.7
204558	Other prepared flour mixes, including cake and sweet goods, etc		194.8	19.2		
	Sweeteners:					
206011	Sugar (cane and beet) in terms of sugar solids		946.9	146.1	1,505.8	160.0
200611	Other natural and artificial sweeteners, including corn, blends of corn, and sugar, molasses, honey, etc		732.9	86.0	(X)	(X)
	Fats and oils, including frying oils:					
207011	100-percent vegetable shortening		332.9	104.8	482.3	77.4
207012	Shortening, animal and blends of animal and vegetable		134.3	39.0		
201151	Lard		123.5	31.3	266.1	30.4
207901	Margarine and puff paste		25.6	8.4	59.3	10.6
207014	Other fats and oils (cooking oils, butter, etc.)		95.7	34.5	148.3	30.5
202311	Dry milks		162.7	38.9	184.9	41.5
201722	Liquid, dried, and frozen eggs (in terms of dry weight equivalent)		94.1	49.0	[1]146.1	[1]35.2
209942	Yeast	Million lb.	312.7	72.1	(X)	([2])
206601	Chocolate (compounds, cocoa, chocolate liquor, etc.)	.....	(X)	54.1	(X)	([2])
970005	Containers and wrapping materials	.....	(X)	369.6	(X)	264.1
970099	All other materials, ingredients, containers, and supplies	.....	(X)	r426.8	(X)	r356.4
971000	Materials, ingredients, containers and supplies, n.s.k.[3]	.....	(X)	444.1	(X)	r252.9
	INDUSTRY 2052, COOKIES AND CRACKERS					
	Materials, ingredients, containers, and supplies	.....	(NA)	1,117.1	(NA)	652.5
	Wheat flour, except prepared flour mixes:					
204117	White bread-type flour	Million lb.	900.0	61.7		
204116	Cake-type flour		388.5	26.9		
204118	Other wheat flour, including whole wheat and wheat gluten, but excluding prepared flour mixes		1,249.4	77.7	2,437.5	139.5
	Prepared flour mixes:					
204557	Doughnut, cake, and yeast-type mixes		(D)	(D)	74.1	4.7
204558	Other prepared flour mixes, including cake and sweet goods, etc	Million lb.				
	Sweeteners:					
206011	Sugar (cane and beet) in terms of sugar solids		606.9	99.7	706.3	83.8
200611	Other natural and artificial sweeteners, including corn, blends of corn, and sugar, molasses, honey, etc		250.3	30.9	(X)	(X)
	Fats and oils, including frying oils:					
207011	100-percent vegetable shortening	Million lb.	233.5	72.7	259.4	37.4
207012	Shortening, animal and blends of animal and vegetable		90.4	23.5		
201151	Lard		178.2	40.5	204.0	34.2
207901	Margarine and puff paste		(D)	(D)	2.9	0.5
207014	Other fats and oils (cooking oils, butter, etc.)		97.0	30.8	118.0	19.0
202311	Dry milks		28.9	4.7	17.5	3.2
201722	Liquid, dried, and frozen eggs (in terms of dry weight equivalent)		9.6	9.4	(X)	(X)
209942	Yeast	Million lb.	6.1	2.0	(X)	(X)
206601	Chocolate (compounds, cocoa, chocolate liquor, etc.)	.....	(X)	83.4	(X)	(X)
970005	Containers and wrapping materials	.....	(X)	247.3	(X)	157.3
970099	All other materials, ingredients, containers, and supplies	.....	(X)	248.7	(X)	165.3
971000	Materials, ingredients, containers, and supplies, n.s.k.[1]	.....	(X)	44.4	(X)	18.7

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind.
r Revised. (X) Not applicable.

[1] For 1972, data excluded dried eggs.
[2] For 1972, material codes 209942 and 206601 were included with material code 970099.
[3] Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

Table 8. **Employees Engaged in Transportation (Industries 2051 and 2052): 1977**

Item	Total		Employees of establishments reporting transportation employees			Employees of establishments not reporting transportation employees (1,000)	Coverage ratio C/A	Employees ratio of transportation activity to total E/C
				Engaged in transportation				
	Employees (1,000)	Payroll (million)	Total (1,000)	Employees (1,000)	Payroll (millions)			
	A	B	C	D	E	F	G	H
Bread, cake, and related products....	178.0	2,335.8	135.4	40.0	642.5	42.6	.76	.30
Cookies and crackers.....	43.8	530.2	21.9	1.7	29.4	21.9	.50	.08

Note: Establishments in selected industries were instructed to report number of employees, included in total employment, that were engaged in delivery of products sold by that establishment and utilized as a separate work force. Coverage Ratio (column G) indicates proportion of industry employment represented by establishments that reported transportation employees. Coverage Ratio excludes (a) delivery workers not employed by the establishment (e.g., working under contract or provided by another establishment of company), (b) establishments that reported having no transportation employees, (c) establishments that did not respond to inquiry, and (d) establishments that were not mailed a form, or from which a form had not been received at time data were tabulated.

Sugar and Confectionery Products

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DESCRIPTION OF INDUSTRIES

SUGAR AND CONFECTIONERY PRODUCTS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2061	Raw Cane Sugar
2062	Cane Sugar Refining
2063	Beet Sugar
2065	Confectionery Products
2066	Chocolate and Cocoa Products
2067	Chewing Gum

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2061, RAW CANE SUGAR

This industry comprises establishments primarily engaged in the manufacture of raw sugar, sirup and molasses, and finished (granulated or clarified) cane sugar from sugarcane. Establishments primarily engaged in the manufacture of refined sugar from raw cane sugar and sugar sirup are classified in industry 2062.

The total value of shipments for establishments classified in the Raw Cane Sugar industry amounted to $704 million in 1977, an increase of 73 percent from 1972. The value of shipments of products classified as primary to the industry was $708 million, an increase of 69 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The product accounting for a significant portion of this change was raw sugarcane, for which shipments increased 54 percent. Value added by manufacture, at $276 million in 1977, was 74 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 8.0 thousand employees, an increase of 13 percent from 1972. The leading States in employment were Hawaii, Louisiana, Florida, and Texas, accounting for approximately 100 percent of the industry's 1977 employment. Data for Florida and Texas have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2062, CANE SUGAR REFINING

This industry comprises establishments primarily engaged in refining purchased raw cane sugar and sugar sirup.

The total value of shipments for establishments classified in the Cane Sugar Refining industry amounted to $2,260 million in 1977, an increase of 30 percent from 1972. The value of shipments of products classified as primary to the industry was $2,168 million, an increase of 24 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $526 million in 1977, was 37 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 10.2 thousand employees, a decrease of 6 percent from 1972. The leading States in employment were Louisiana, New York, Pennsylvania, and California, accounting for approximately 65 percent of the industry's 1977 employment. Data for Pennsylvania and California have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The establishments in this industry with less than 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2063, BEET SUGAR

This industry comprises establishments primarily engaged in the manufacture of sugar from sugar beets. Establishments primarily engaged in the manufacture of raw cane sugar and cane sugar refining are classified in industries 2061 and 2062, respectively.

The total value of shipments for establishments classified in the Beet Sugar industry amounted to $1,182 million in 1977, an increase of 32 percent from 1972. The value of shipments of products classified as primary to the industry was $1,160 million. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were refined beet sugar and byproducts, for which shipments increased 32 percent. The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $346 million in 1977, was 11 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 11.4 thousand employees, a decrease of 1 percent from 1972. The leading States in employment were California, Idaho, Washington, and Colorado, accounting for approximately 55 percent of the industry's 1977 employment. Data for Idaho, Washington, and Colorado have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2065, CONFECTIONERY PRODUCTS

This industry comprises establishments primarily engaged in the manufacture of candy, including chocolate candy, salted nuts, other confections, and related products. Establishments primarily engaged in the manufacture of solid chocolate bars are classified in industry 2066, and chewing gum in industry 2067.

The total value of shipments for establishments classified in the Confectionery Products industry amounted to $4,495 million in 1977, an increase of 82 percent from 1972. The value of shipments of products classified as primary to the industry was $4,170 million, an increase of 79 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $2,024 million in 1977, was 81 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 58.0 thousand employees, a decrease of 4 percent from 1972. The leading States in employment were Illinois, Pennsylvania, New York, and California, accounting for approximately 50 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 50 percent of the industry's employment.

The 1977 census obtained data on shipments of chocolate and nonchocolate confectionery products only at product class levels. Data on total sales of confectionery, including chocolate products are reported monthly in the Census Bureau's Current Industrial Reports (CIR) M20C, Confectionery, Including Chocolate Products.

Certain products primary to industry 2065 are also primary to industry 2066. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

INDUSTRY 2066, CHOCOLATE AND COCOA PRODUCTS

This industry comprises establishments primarily engaged in shelling, roasting, and grinding cacao beans for the purpose of making chocolate liquor, from which cocoa powder and cocoa butter are derived, and in the future manufacture of solid chocolate bars and chocolate coatings. Establishments primarily engaged in the manufacture of products, except candy, from purchased chocolate and cocoa are classified in industry 2099, and chocolate candy in industry 2065.

The total value of shipments for establishments classified in the Chocolate and Cocoa Products industry amounted to $1,629 million in 1977, an increase of 122 percent from 1972. The value of shipments of products classified as primary to the industry was $1,603 million, an increase of 123 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $641 million in 1977, was 127 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 10.0 thousand employees, the same as in 1972. The leading States in employment were Pennsylvania, New York, California, and Wisconsin, accounting for 94 percent of the industry's 1977 employment. Data for New York, California, and Wisconsin have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2067, CHEWING GUM

This industry comprises establishments primarily engaged in the manufacture of chewing gum (not medicated) and chewing gum base.

The total value of shipments for establishments classified in the Chewing Gum industry amounted to $567 million in 1977, an increase of 48 percent from 1972. The value of shipments of products classified as primary to the industry was $649 million, an increase of 69 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The product accounting for a significant portion of this change was nondietetic chewing gum, for which shipments increased 42 percent. Value added by manufacture, at $336 million in 1977, was 47 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 7.7 thousand employees, an increase of 12 percent from 1972. The leading States in employment were Pennsylvania, New York, and Illinois, accounting for approximately 85 percent of the industry's 1977 employment. Data for these same States have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets		End-of-year inventories (million dollars)	Ratios	
	Companies[2] (no.)	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				New capital expenditures (million dollars)	Gross value of fixed assets (million dollars)		Specialization (percent)	Coverage (percent)
INDUSTRY 2061, RAW CANE SUGAR																
1977 Census--	49	65	55	8.0	95.8	6.3	13.6	70.8	275.7	440.1	704.0	43.4	(NA)	107.9	100	99
1976 ASM----	(NA)	(NA)	(NA)	8.1	99.6	6.3	14.7	75.8	246.2	429.1	713.5	72.7	594.8	78.7	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	7.8	88.4	6.2	13.9	66.4	454.4	535.1	1 015.9	74.4	528.5	117.4	(NA)	(NA)
1974 ASM[5]---	(NA)	(NA)	(NA)	7.0	70.1	5.4	12.7	52.1	737.1	599.3	1 262.1	38.5	471.8	140.8	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	7.1	66.5	5.6	13.3	50.0	219.5	335.4	542.0	34.3	471.5	56.5	(NA)	(NA)
1972 Census--	51	77	62	7.1	60.7	5.2	12.3	44.0	151.7	260.9	406.5	28.8	450.3	43.2	99	96
1971 ASM----	(NA)	(NA)	(NA)	7.5	57.5	5.7	13.3	41.4	196.8	214.1	407.7	20.2	416.4	46.0	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	7.3	51.6	5.6	12.7	36.5	159.9	203.2	364.4	23.2	405.9	37.2	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	7.4	48.2	5.6	12.3	34.2	154.3	196.2	347.9	13.9	377.0	42.0	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	7.8	49.5	6.1	14.2	36.2	147.0	241.1	383.0	14.6	353.6	39.1	(NA)	(NA)
1967 Census--	51	83	74	7.9	48.5	6.2	14.5	35.4	133.8	238.7	368.5	21.4	353.5	33.6	100	100
1966 ASM----	(NA)	(NA)	(NA)	7.9	45.2	6.2	14.3	33.0	121.1	187.1	313.5	24.6	(NA)	20.2	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	8.0	42.7	6.4	14.5	31.1	107.6	182.0	294.4	17.6	(NA)	20.8	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	8.5	42.2	6.5	15.4	30.3	106.2	216.0	325.2	24.4	347.7	19.5	(NA)	(NA)
1963 Census--	50	74	73	8.3	38.8	6.3	14.6	37.9	135.7	251.9	378.7	19.3	326.1	24.3	99	100
INDUSTRY 2062, CANE SUGAR REFINING																
1977 Census--	27	40	27	10.2	168.9	7.2	15.4	116.4	526.2	1 755.1	2 260.0	53.4	(NA)	345.1	99	100
1976 ASM----	(NA)	(NA)	(NA)	10.3	158.2	7.3	15.3	107.5	550.7	2 057.6	2 596.0	37.9	554.6	292.5	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	10.5	144.4	7.3	15.1	96.0	479.5	2 878.0	3 474.9	40.1	533.0	238.6	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	10.9	143.1	7.8	17.5	98.6	878.7	3 775.2	4 477.9	22.2	490.6	533.8	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	10.6	121.8	7.8	16.9	83.8	415.9	1 515.3	1 913.3	19.5	472.5	240.5	(NA)	(NA)
1972 Census--	22	33	28	10.9	119.5	8.2	18.1	83.8	383.9	1 363.9	1 742.7	23.6	473.3	203.2	99	98
1971 ASM----	(NA)	(NA)	(NA)	10.6	108.6	7.9	17.6	76.2	364.6	1 289.1	1 640.6	20.0	439.1	213.2	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	10.6	101.7	7.8	16.7	71.5	385.7	1 200.4	1 589.3	19.1	419.0	188.0	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	11.2	98.2	8.4	17.8	71.3	332.9	1 172.2	1 502.1	16.8	409.3	157.5	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	11.0	94.0	8.4	18.2	69.7	294.7	1 129.1	1 425.1	22.3	390.2	177.1	(NA)	(NA)
1967 Census--	22	34	27	11.5	92.7	8.7	18.7	69.2	308.5	1 081.0	1 375.7	24.1	378.5	165.5	100	100
1966 ASM----	(NA)	(NA)	(NA)	11.1	88.1	8.4	17.8	64.7	262.8	961.0	1 219.9	25.6	(NA)	128.2	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	11.2	85.0	8.5	17.9	62.5	268.0	914.1	1 181.6	18.6	(NA)	126.3	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	12.1	87.6	9.1	19.2	64.2	204.5	944.3	1 185.1	22.7	337.8	130.3	(NA)	(NA)
1963 Census--	16	25	25	12.4	90.8	9.5	20.7	66.9	254.4	1 048.1	1 271.2	16.2	335.3	214.6	100	100
INDUSTRY 2063, BEET SUGAR																
1977 Census--	14	57	52	11.4	143.3	9.9	21.3	119.0	345.6	836.2	1 181.7	43.5	(NA)	467.1	99	99
1976 ASM----	(NA)	(NA)	(NA)	13.0	153.6	11.4	24.5	130.5	475.5	1 030.9	1 483.2	109.7	755.1	510.6	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	12.4	130.5	11.0	22.1	110.4	689.7	1 149.6	1 741.1	72.7	653.8	469.0	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	11.7	110.4	10.5	21.6	94.2	769.8	1 024.7	1 687.8	25.5	583.0	357.0	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	11.1	102.3	10.0	21.3	88.5	257.4	651.3	936.7	26.4	548.7	231.8	(NA)	(NA)
1972 Census--	16	61	54	11.5	92.3	10.4	21.2	78.4	310.5	566.5	880.2	34.9	509.9	254.4	99	100
1971 ASM----	(NA)	(NA)	(NA)	11.4	89.1	10.3	22.4	77.1	308.5	512.2	808.7	26.2	498.7	270.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	12.9	86.4	11.6	23.4	73.8	282.9	451.6	726.6	17.3	469.3	256.1	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	13.0	86.7	11.7	24.0	74.3	235.5	442.1	669.1	35.7	461.9	260.0	(NA)	(NA)
1968 ASM[5]---	(NA)	(NA)	(NA)	12.0	77.0	10.6	21.7	65.3	276.5	394.8	619.5	33.5	412.1	246.3	(NA)	(NA)
1967 Census--	15	65	61	11.5	88.4	10.1	20.3	56.3	209.7	343.0	560.7	35.7	398.4	192.3	100	100
1966 ASM----	(NA)	(NA)	(NA)	11.8	87.7	10.0	20.2	54.7	220.3	350.8	579.5	17.5	(NA)	205.9	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	12.3	87.6	11.0	22.1	57.3	198.5	353.3	531.2	22.0	(NA)	215.3	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	12.1	87.8	10.7	23.6	58.1	191.5	380.4	545.8	54.9	349.5	191.2	(NA)	(NA)
1963 Census--	11	65	62	11.3	59.6	10.1	21.4	50.9	200.7	373.5	564.1	38.1	308.6	164.2	100	100
INDUSTRY 2065, CONFECTIONERY PRODUCTS																
1977 Census--	865	962	343	58.0	584.2	47.0	89.1	415.5	2 024.3	2 478.1	4 494.7	115.5	(NA)	450.2	95	94
1976 ASM----	(NA)	(NA)	(NA)	59.0	543.2	47.1	87.1	380.5	1 623.1	2 184.7	3 804.1	86.9	894.9	445.5	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	57.3	475.5	45.2	81.0	330.3	1 399.1	2 109.0	3 540.2	63.6	840.1	395.7	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	60.9	484.6	48.5	89.2	337.0	1 337.5	2 041.2	3 340.3	80.5	765.6	449.6	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	60.7	445.7	47.1	91.3	307.2	1 112.5	1 516.2	2 591.5	[6]64.8	715.1	372.7	(NA)	(NA)
1972 Census--	917	1 011	394	60.7	422.2	49.2	95.9	299.3	1 115.7	1 364.1	2 472.5	53.4	683.9	289.8	95	95
1971 ASM----	(NA)	(NA)	(NA)	64.0	411.4	51.3	102.2	286.0	1 103.4	1 260.4	2 358.6	56.7	680.2	296.1	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	68.7	406.7	56.0	107.7	282.6	1 073.9	1 231.6	2 285.2	62.7	644.0	292.3	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	67.8	375.4	56.0	109.1	272.6	919.0	1 154.3	2 063.9	61.2	619.3	274.2	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	67.3	358.7	55.8	107.8	260.4	899.5	1 100.6	1 988.9	64.7	578.2	267.7	(NA)	(NA)
1967 Census--	1 091	1 183	424	67.9	338.7	57.1	109.3	246.4	861.5	1 019.5	1 870.2	53.0	523.4	229.7	97	94
1966 ASM----	(NA)	(NA)	(NA)	66.6	313.4	55.8	106.5	224.3	756.1	938.8	1 681.5	48.1	(NA)	214.9	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	65.3	295.3	54.6	106.2	212.6	721.0	866.8	1 583.1	41.2	(NA)	195.9	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	65.6	291.6	54.5	105.2	206.0	691.7	865.9	1 552.6	35.7	374.0	192.5	(NA)	(NA)
1963 Census--	1 142	1 211	411	63.6	269.7	52.7	102.4	193.0	635.4	824.1	1 454.5	28.1	345.3	191.5	95	95

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2066, CHOCOLATE AND COCOA PRODUCTS																
1977 Census--	46	56	27	10.0	130.2	7.2	13.9	84.0	640.6	996.3	1 629.2	35.0	(NA)	175.1	94	94
1976 ASM----	(NA)	(NA)	(NA)	9.0	108.9	6.6	12.6	71.2	445.0	816.8	1 269.8	21.2	281.2	173.6	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	8.7	91.9	6.3	12.2	60.1	377.7	796.2	1 170.3	17.2	268.9	177.8	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	9.7	97.1	7.2	14.1	64.5	355.6	806.2	1 131.7	15.9	261.6	226.0	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	10.6	95.8	8.3	16.5	69.0	304.7	553.5	857.0	20.3	252.4	133.6	(NA)	(NA)
1972 Census--	39	48	30	10.0	83.3	8.0	15.5	60.6	282.6	455.2	735.5	26.5	233.4	122.9	93	75
1971 ASM----	(NA)	(NA)	(NA)	9.1	73.4	7.3	14.6	52.9	234.5	414.5	654.8	14.4	201.5	107.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	8.4	63.4	6.7	13.4	45.5	216.8	387.6	601.5	9.4	189.6	122.2	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	8.4	60.3	6.6	13.3	42.9	212.5	394.8	606.8	9.1	191.8	123.4	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	8.7	56.4	6.9	13.4	40.6	206.4	354.9	556.3	7.6	184.8	124.3	(NA)	(NA)
1967 Census--	27	34	23	8.4	53.9	6.6	13.4	39.2	196.2	330.3	520.5	9.3	178.2	102.1	96	75
1966 ASM----	(NA)	(NA)	(NA)	8.2	51.0	6.6	13.4	37.6	179.7	282.6	471.0	21.7	(NA)	93.4	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	7.9	47.2	6.4	12.8	34.5	165.6	286.0	452.7	11.9	(NA)	94.8	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	8.5	49.5	6.7	13.8	36.3	167.9	302.3	477.4	9.6	121.1	109.6	(NA)	(NA)
1963 Census--	24	28	23	8.7	49.3	7.0	14.0	35.9	184.7	302.7	479.1	8.4	118.4	118.4	99	82
INDUSTRY 2067, CHEWING GUM																
1977 Census--	14	18	14	7.7	83.9	6.0	11.6	62.7	335.5	233.0	566.5	22.1	(NA)	116.4	92	77
1976 ASM----	(NA)	(NA)	(NA)	6.5	73.3	5.3	10.8	56.3	317.7	223.3	538.4	19.7	170.8	125.1	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	5.7	57.6	4.6	8.9	44.2	276.4	207.0	480.8	14.5	152.7	109.3	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	6.4	57.2	5.2	10.1	43.9	239.2	196.7	431.5	11.4	149.0	95.1	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	7.0	57.1	5.6	10.7	41.0	253.2	150.7	404.2	10.6	156.6	76.7	(NA)	(NA)
1972 Census--	15	19	16	6.9	53.6	5.8	11.5	41.3	228.4	150.5	382.6	19.0	148.7	72.2	90	88
1971 ASM----	(NA)	(NA)	(NA)	7.1	55.1	5.8	11.4	38.7	267.6	152.2	428.9	26.3	142.4	65.8	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	6.9	50.9	5.6	11.2	35.4	262.0	143.7	406.7	12.9	116.8	64.3	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	7.1	49.6	6.0	11.5	36.4	251.1	139.9	387.9	7.3	104.9	74.4	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	6.8	43.5	5.6	10.9	32.5	188.2	131.0	318.4	6.8	106.4	59.2	(NA)	(NA)
1967 Census--	19	23	16	6.8	41.6	4.9	9.7	26.5	190.3	115.1	303.7	13.3	102.3	63.6	86	95
1966 ASM----	(NA)	(NA)	(NA)	6.5	40.8	4.7	9.5	25.1	176.7	110.0	281.7	12.9	(NA)	59.8	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	6.1	37.1	4.4	8.4	22.8	158.2	103.2	260.3	6.4	(NA)	54.1	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	5.6	32.7	3.9	7.5	18.3	146.1	97.6	241.8	6.7	67.5	48.7	(NA)	(NA)
1963 Census--	20	24	17	5.6	31.0	3.9	7.4	17.8	135.8	89.3	224.8	2.9	61.5	45.2	88	96

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2061, RAW CANE SUGAR											
1977 Census--	11 934	(NA)	77	2 167	5.21	62	76	(NA)	34 352	34	20.32
1976 ASM----	12 450	74 350	78	2 333	5.15	60	74	83	30 775	40	16.74
1975 ASM----	11 333	67 756	79	2 241	4.77	52	61	52	58 256	19	32.69
1974 ASM----	10 014	67 400	77	2 351	4.10	47	53	37	105 300	9	58.03
1973 ASM----	9 368	66 408	78	2 375	3.75	61	74	86	30 915	30	16.50
1972 Census--	8 549	63 422	73	2 365	3.57	64	79	110	21 366	40	12.33
1971 ASM----	7 666	55 520	76	2 333	3.11	52	66	102	26 240	29	14.79
1970 ASM----	7 068	55 602	76	2 267	2.87	55	69	111	21 904	32	12.59
1969 ASM----	6 513	50 945	75	2 196	2.78	56	70	108	20 851	31	12.54
1968 ASM----	6 346	45 333	78	2 327	2.54	62	75	92	18 846	33	10.35
1967 Census--	6 139	44 746	78	2 338	2.44	64	77	95	16 936	36	9.22
1966 ASM----	5 721	(NA)	78	2 306	2.30	59	74	(NA)	15 329	37	8.46
1965 ASM----	5 337	(NA)	80	2 265	2.14	61	76	(NA)	13 450	39	7.42
1964 ASM----	4 964	40 905	76	2 369	1.96	66	79	106	12 494	39	6.89
1963 Census--	4 674	39 289	75	2 317	2.59	66	76	86	16 349	28	9.29
INDUSTRY 2062, CANE SUGAR REFINING											
1977 Census--	16 478	(NA)	70	2 126	7.57	77	85	(NA)	51 344	32	34.25
1976 ASM----	15 359	53 844	70	2 095	7.02	79	85	21	53 466	28	35.99
1975 ASM----	13 752	50 761	69	2 068	6.35	82	86	15	45 666	30	31.75
1974 ASM----	13 128	45 009	71	2 243	5.63	84	87	10	80 614	16	50.21
1973 ASM----	11 490	44 575	73	2 166	4.95	79	85	24	39 235	29	24.60
1972 Census--	10 963	43 422	75	2 207	4.62	78	85	27	35 220	31	21.20
1971 ASM----	10 245	41 424	74	2 227	4.32	78	85	26	34 396	29	20.71
1970 ASM----	9 594	39 528	73	2 141	4.28	75	81	26	36 386	26	23.09
1969 ASM----	8 767	36 544	75	2 119	4.00	78	84	27	29 723	29	18.70
1968 ASM----	8 545	35 472	76	2 166	3.82	79	85	27	26 790	31	16.19
1967 Census--	8 060	32 913	75	2 149	3.70	78	85	27	26 826	30	16.49
1966 ASM----	7 936	(NA)	75	2 119	3.63	78	85	(NA)	23 675	33	14.76
1965 ASM----	7 589	(NA)	75	2 105	3.49	77	84	(NA)	23 928	31	14.97
1964 ASM----	7 239	27 917	75	2 109	3.34	79	87	28	16 900	42	10.65
1963 Census--	7 322	27 040	76	2 178	3.23	82	89	26	20 516	35	12.28
INDUSTRY 2063, BEET SUGAR											
1977 Census--	12 517	(NA)	86	2 144	5.58	70	82	(NA)	30 192	41	16.20
1976 ASM----	11 815	58 084	87	2 149	5.32	69	79	50	36 576	32	19.40
1975 ASM----	10 524	52 725	88	2 009	4.99	66	73	37	55 620	18	31.20
1974 ASM----	9 435	49 829	89	2 057	4.36	60	67	34	65 794	14	35.63
1973 ASM----	9 216	49 432	90	2 130	4.15	69	80	58	23 189	39	12.08
1972 Census--	8 026	44 339	90	2 038	3.69	64	74	57	27 000	29	14.64
1971 ASM----	7 815	43 745	90	2 174	3.44	63	74	61	27 061	28	13.77
1970 ASM----	6 697	36 379	89	2 017	3.15	62	74	64	21 930	30	12.08
1969 ASM----	6 689	35 530	90	2 051	3.09	66	79	69	18 115	36	9.81
1968 ASM----	6 416	34 341	88	2 047	3.00	63	76	66	23 041	27	12.74
1967 Census--	5 947	34 643	87	2 009	2.77	61	73	71	18 234	32	10.33
1966 ASM----	5 737	(NA)	84	2 020	2.70	60	72	(NA)	18 669	30	10.90
1965 ASM----	5 495	(NA)	89	2 009	2.59	66	79	(NA)	16 138	34	8.98
1964 ASM----	5 603	28 884	88	2 205	2.46	69	82	84	15 826	35	8.11
1963 Census--	5 274	27 309	89	2 118	2.37	66	76	54	17 761	29	9.37
INDUSTRY 2065, CONFECTIONERY PRODUCTS											
1977 Census--	10 080	(NA)	81	1 893	4.66	55	68	(NA)	34 931	28	22.73
1976 ASM----	9 206	15 167	79	1 849	4.36	57	71	23	27 510	33	18.63
1975 ASM----	8 298	14 661	78	1 792	4.07	59	73	23	24 417	33	17.27
1974 ASM----	7 957	12 899	79	1 839	3.77	61	75	23	21 962	36	14.99
1973 ASM----	7 342	11 780	77	1 938	3.36	58	75	27	18 327	40	12.18
1972 Census--	6 955	11 266	81	1 949	3.12	55	72	27	18 380	37	11.63
1971 ASM----	6 428	10 628	80	1 992	2.79	53	70	28	17 240	37	10.79
1970 ASM----	5 919	9 374	81	1 923	2.62	53	71	28	15 631	37	9.97
1969 ASM----	5 536	9 134	82	1 948	2.49	55	74	30	13 554	40	8.42
1968 ASM----	5 329	8 591	82	1 931	2.41	55	73	29	13 365	39	8.34
1967 Census--	4 988	7 708	84	1 914	2.25	54	72	27	12 687	39	7.88
1966 ASM----	4 705	(NA)	83	1 915	2.10	55	74	(NA)	11 352	41	7.09
1965 ASM----	4 522	(NA)	84	1 945	2.00	54	73	(NA)	11 041	40	6.78
1964 ASM----	4 445	5 701	83	1 930	1.95	55	74	24	10 544	42	6.57
1963 Census--	4 240	5 429	82	1 943	1.88	56	75	23	9 990	42	6.20

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2066, CHOCOLATE AND COCOA PRODUCTS										
1977 Census--	13 004	(NA)	72	1 926	6.03	61	69	(NA)	63 977	20	48.05
1976 ASM----	12 100	31 244	73	1 909	5.65	64	72	22	49 444	24	35.31
1975 ASM----	10 563	30 908	72	1 936	4.92	68	75	22	43 413	24	30.95
1974 ASM----	10 010	26 969	74	1 958	4.57	71	79	23	36 659	27	25.21
1973 ASM----	9 037	23 811	78	1 987	4.18	64	75	29	28 745	31	18.46
1972 Census--	8 330	23 340	80	1 937	3.90	61	73	31	28 280	29	18.23
1971 ASM----	8 065	22 142	80	2 000	3.62	63	74	30	25 789	31	16.06
1970 ASM----	7 547	22 571	79	2 000	3.39	64	74	31	25 809	29	16.17
1969 ASM----	7 178	22 833	78	2 015	3.22	65	75	31	25 297	28	15.97
1968 ASM----	6 482	21 241	79	1 942	3.02	63	73	33	23 724	27	15.40
1967 Census--	6 416	21 214	78	2 030	2.92	63	73	34	23 357	27	14.64
1966 ASM----	6 219	(NA)	80	2 030	2.80	60	70	(NA)	21 914	28	13.41
1965 ASM----	5 974	(NA)	81	2 000	2.69	63	73	(NA)	20 962	28	12.93
1964 ASM----	5 823	14 247	78	2 059	2.63	63	73	25	19 752	29	12.16
1963 Census--	5 666	13 609	80	2 000	2.56	63	73	24	21 229	26	13.19
	INDUSTRY 2067, CHEWING GUM										
1977 Census--	10 895	(NA)	77	1 934	5.40	41	55	(NA)	43 577	25	26.93
1976 ASM----	11 276	26 276	81	2 037	5.21	41	55	31	48 876	23	29.41
1975 ASM----	10 105	26 789	80	1 934	4.96	43	55	31	48 491	20	31.05
1974 ASM----	6 937	23 281	81	1 942	4.34	45	58	34	37 375	23	23.68
1973 ASM----	8 157	22 371	80	1 910	3.83	37	51	38	36 171	22	23.66
1972 Census--	7 768	21 550	84	1 982	3.59	39	53	38	33 101	23	19.66
1971 ASM----	7 760	20 056	81	1 965	3.39	35	48	33	40 507	19	25.22
1970 ASM----	7 376	16 927	81	2 000	3.16	35	47	28	37 971	19	23.39
1969 ASM----	6 985	14 774	84	1 916	3.16	36	48	27	35 388	19	21.83
1968 ASM----	6 397	15 647	82	1 946	2.98	41	54	33	27 676	23	17.26
1967 Census--	6 117	15 044	72	1 979	2.73	37	51	33	27 985	21	18.61
1966 ASM----	6 276	(NA)	72	2 021	2.64	39	53	(NA)	27 184	23	18.60
1965 ASM----	6 081	(NA)	72	1 909	2.71	39	53	(NA)	25 934	23	18.83
1964 ASM----	5 839	12 053	69	1 923	2.44	40	53	27	26 089	22	19.48
1963 Census--	5 535	10 982	69	1 897	2.40	39	53	27	24 250	22	18.35

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2061, RAW CANE SUGAR													
United States	-	**65**	**55**	**8.0**	**95.6**	**6.3**	**13.6**	**70.8**	**275.7**	**440.1**	**704.0**	**43.4**	**7.1**	**151.7**
South Atlantic Division:													
Florida	-	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:													
Louisiana	-	40	33	2.4	23.7	2.1	4.5	19.1	55.0	146.3	180.1	10.1	(NA)	(D)
Texas	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Hawaii	-	15	14	3.3	39.5	2.4	5.1	27.9	145.0	141.2	286.2	17.8	3.3	67.1
INDUSTRY 2062, CANE SUGAR REFINING													
United States	-	**40**	**27**	**10.2**	**168.9**	**7.2**	**15.4**	**116.4**	**526.2**	**1 755.1**	**2 260.0**	**53.4**	**10.9**	**383.9**
New England Division:													
Massachusetts	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:													
New York	-	7	5	1.6	27.0	1.0	2.0	16.8	88.5	277.8	366.4	(D)	(NA)	(D)
Pennsylvania	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
East North Central Division:														
Illinois	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:														
Maryland	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Georgia	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Florida	-	3	3	0.4	4.5	0.2	0.4	2.8	7.6	54.5	69.0	(D)	(NA)	(D)
West South Central Division:														
Louisiana	-	7	6	2.3	36.1	1.8	4.2	28.4	97.3	462.9	548.0	7.3	(NA)	(D)
Texas	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
California	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
INDUSTRY 2063, BEET SUGAR													
United States	-	**57**	**52**	**11.4**	**143.3**	**9.9**	**21.3**	**119.0**	**345.6**	**836.2**	**1 181.7**	**43.5**	**11.5**	**310.5**
East North Central Division:														
Ohio	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Michigan	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West North Central Division:														
Minnesota	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
North Dakota	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Nebraska	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:														
Texas	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Mountain Division:														
Montana	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Idaho	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Wyoming	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Colorado	-	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Arizona	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Utah	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
Washington	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Oregon	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
California	-	11	11	3.1	35.6	2.6	5.6	28.2	73 4	239.2	325.2	13.1	(NA)	(D)
INDUSTRY 2065, CONFECTIONERY PRODUCTS														
United States	-	**962**	**343**	**58.0**	**584.2**	**47.0**	**89.1**	**415.5**	**2 024.3**	**2 478.1**	**4 494.7**	**115.5**	**60.7**	**1 115.7**
New England Division:														
Massachusetts	-	48	19	2.9	25.9	2.5	4.8	19.2	81.5	86.0	167.1	(D)	3.7	54.9
Rhode Island	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Connecticut	-	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:														
New York	-	76	26	4.0	39.9	3.2	5.2	28.5	116.5	106.6	224.7	5.8	3.9	61.8
New Jersey	-	43	19	2.5	31.0	2.0	3.8	21.1	115.2	206.1	327.4	(D)	3.2	78.0
Pennsylvania	-	121	44	5.5	53.0	4.8	8.7	40.0	161.9	208.7	368.8	13.5	6.1	99.3
East North Central Division:														
Ohio	-	82	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	24.2
Indiana	-	19	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	24.0
Illinois	-	83	51	14.9	175.0	12.2	22.6	129.6	583.5	597.4	1 153.3	(D)	14.8	352.5
Michigan	E1	31	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.0
Wisconsin	-	20	7	0.6	4.9	0.5	0.9	3.3	16.1	17.5	33.1	(D)	0.7	10.8

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2065, CONFECTIONERY PRODUCTS—Con.														
West North Central Division:														
Minnesota	-	10	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Missouri	-	29	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Nebraska	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:														
Maryland	E1	16	6	0.3	2.1	0.2	0.4	1.4	7.0	8.1	15.1	0.3	0.5	4.6
Virginia	-	19	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
North Carolina	E1	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Carolina	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Georgia	-	22	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Florida	E1	21	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.7
East South Central Division:														
Tennessee	-	9	6	1.3	11.7	1.1	2.1	7.1	36.6	29.7	67.4	4.1	(NA)	(D)
Alabama	-	10	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	10.9
West South Central Division:														
Arkansas	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana	E3	10	3	0.3	2.0	0.2	0.4	1.2	5.7	6.4	11.8	0.1	0.2	2.5
Oklahoma	-	12	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Texas	E1	45	11	1.6	17.0	1.2	2.5	10.3	45.5	56.3	113.0	(D)	(NA)	(D)
Mountain Division:														
Colorado	-	14	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Utah	E5	16	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
Washington	-	14	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Oregon	-	12	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
California	-	105	36	4.0	39.9	2.8	5.3	25.4	118.1	123.8	242.9	8.2	4.8	78.4
Hawaii	-	17	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
INDUSTRY 2066, CHOCOLATE AND COCOA PRODUCTS														
United States	-	**56**	**27**	**10.0**	**130.2**	**7.2**	**13.9**	**84.0**	**640.6**	**996.3**	**1 629.2**	**35.0**	**10.0**	**282.6**
New England Division:														
Massachusetts	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:														
New York	-	8	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pennsylvania	-	13	8	5.7	76.3	3.8	7.2	46.4	239.5	442.9	678.7	(D)	5.9	140.6
East North Central Division:														
Illinois	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Wisconsin	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
California	-	8	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
INDUSTRY 2067, CHEWING GUM														
United States	-	**18**	**14**	**7.7**	**83.9**	**6.0**	**11.6**	**62.7**	**335.5**	**233.0**	**566.5**	**22.1**	**6.9**	**228.4**
Middle Atlantic Division:														
New York	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
New Jersey	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pennsylvania	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
East North Central Division:														
Illinois	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:														
Georgia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
California	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Raw cane sugar (SIC 2061)	Cane sugar refining (SIC 2062)	Beet sugar (SIC 2063)	Confectionery products (SIC 2065)	Chocolate and cocoa products (SIC 2066)	Chewing gum (SIC 2067)
Primary product specialization ratio[1]	percent	100	99	99	95	94	92
Coverage ratio[2]	do	99	100	99	94	94	77
All establishments	number	65	40	57	962	56	18
With 1 to 19 employees	do	10	13	5	619	29	4
With 20 to 99 employees	do	30	7	1	213	13	4
With 100 employees or more	do	25	20	51	130	14	10
All employees, average for year	1,000	8.0	10.2	11.4	58.0	10.0	7.7
Payroll for year, all employees	mil. dol.	95.8	168.9	143.3	584.2	130.2	83.9
Production workers:							
Average for year	1,000	6.3	7.2	8.9	47.0	7.2	6.0
March	do	6.0	7.3	8.0	46.1	7.1	5.7
May	do	5.3	7.1	8.2	43.9	7.0	5.7
August	do	5.3	7.3	7.3	46.9	7.4	6.5
November	do	8.4	7.3	16.3	51.2	7.3	6.0
Hours	millions	13.6	15.4	21.3	89.1	13.9	11.6
January to March	do	3.2	3.9	5.9	21.8	3.5	2.8
April to June	do	2.7	3.7	3.8	21.3	3.5	2.9
July to September	do	2.9	4.0	3.7	21.7	3.4	3.0
October to December	do	4.7	3.8	8.0	24.3	3.5	2.8
Wages	mil. dol.	70.8	116.4	119.0	415.5	84.0	62.7
Cost of materials, etc.	do	440.1	1 755.1	836.2	2 478.1	996.3	233.0
Materials, parts, containers, etc., consumed	do	393.2	1 658.9	709.1	2 173.8	967.0	217.7
Resales	do	(D)	23.5	(D)	249.2	(D)	9.1
Fuels consumed	do	26.6	56.1	103.1	21.2	7.8	2.3
Purchased electric energy	do	5.2	3.7	7.1	29.7	10.0	3.8
Contract work	do	(D)	2.8	(D)	4.1	(D)	(Z)
Value of shipments, including resales	do	704.0	2 260.0	1 181.7	4 494.7	1 629.2	566.5
Value of resales	do	(D)	26.3	(D)	331.6	(D)	10.4
Value added by manufacture	do	275.7	526.2	345.6	2 024.3	640.6	335.5
Manufacturers' inventories:							
Beginning of year	do	97.3	275.9	469.2	442.6	139.2	127.6
Finished products	do	62.2	79.8	357.6	218.7	38.0	25.0
Work in process	do	2.8	43.4	25.2	22.8	25.2	2.8
Materials, supplies, fuel, etc.	do	32.3	152.8	86.4	201.1	76.0	99.8
End of year	do	107.9	345.1	467.1	450.2	175.1	116.4
Finished products	do	76.7	92.0	362.0	223.0	46.0	26.6
Work in process	do	0.1	52.5	20.9	26.3	25.0	3.1
Materials, supplies, fuel, etc.	do	31.1	200.7	84.2	200.9	104.2	86.7
Capital expenditures for plant and equipment	do	44.3	53.4	48.5	120.8	46.0	22.4
New capital expenditures	do	43.4	53.4	43.5	115.5	35.0	22.1
New buildings and other structures	do	4.0	10.8	4.6	25.9	11.2	3.7
New machinery and equipment	do	39.3	42.7	38.9	89.5	23.8	18.4
Used capital expenditures	do	0.9	(Z)	4.9	5.3	11.0	0.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Raw cane sugar (SIC 2061)		Cane sugar refining (SIC 2062)		Beet sugar (SIC 2063)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	1.3	12	1.3	1	0.5	1
Response coverage ratio[2] (percent)	62.0	(X)	64.2	(X)	60.0	(X)
Machinery	(13.4)	39	4.5	1	10.1	1
Response coverage ratio[2] (percent)	69.4	(X)	57.2	(X)	62.0	(X)
Cost of purchased communication services	0.4	8	1.3	1	0.7	1
Response coverage ratio[2] (percent)	71.0	(X)	59.4	(X)	95.4	(X)
Rental payments	5.8	4	4.0	1	3.6	1
Buildings and other structures	(0.2)	33	0.5	1	2.1	1
Machinery and equipment	5.6	4	3.5	1	1.4	1
Supplemental labor costs	22.9	1	35.8	1	28.2	1
Legal costs	9.8	1	13.0	1	13.9	1
Voluntary costs	13.1	1	22.9	1	14.3	1
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning or year	116.2	3	147.0	1	128.9	1
New capital expenditures	(4.1)	22	10.7	1	2.8	1
Used capital expenditures	-	(X)	-	(X)	-	(X)
Retirements	(3.2)	26	4.6	1	0.2	1
End of year	117.1	4	153.1	1	131.5	1
Machinery and equipment:						
Beginning of year	491.7	3	403.7	1	618.7	1
New capital expenditures	37.2	3	42.4	1	32.8	1
Automobiles, trucks, etc., for highway use[3]	(3.1)	(A)	(0.4)	(A)	(0.3)	(A)
Computers and peripheral data processing equipment[3]	-	(X)	(0.9)	(A)	(Z)	(A)
All other[3]	(33.8)	(A)	(40.6)	(A)	(32.5)	(A)
New machinery and equipment, n.s.k.[4]	0.3	1	(0.5)	(A)	-	(X)
Used capital expenditures	0.8	1	-	(X)	4.9	1
Retirements	(25.6)	24	37.3	1	5.3	1
End of year	504.1	4	408.8	1	651.2	1
Total gross value of depreciable assets:						
Beginning of year	607.9	3	550.7	1	747.6	1
New capital expenditures	41.3	4	53.1	1	35.7	1
Used capital expenditures	0.8	1	-	(X)	4.9	1
Retirements	(28.8)	24	41.9	1	5.5	1
End of year	621.2	2	561.9	1	782.8	1
Depreciation charges during 1977	36.2	2	26.5	1	39.2	1
Buildings and other structures	6.6	3	4.5	1	3.3	1
Machinery and equipment	29.5	3	22.0	1	35.8	1

See footnotes at end of table.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977—Con.

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Confectionery products (SIC 2065)		Chocolate and cocoa products (SIC 2066)		Chewing gum (SIC 2067)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	4.8	5	1.6	1	4.1	1
Response coverage ratio[2] (percent)	53.8	(X)	87.0	(X)	91.0	(X)
Machinery	16.7	6	3.4	1	296.5	1
Response coverage ratio[2] (percent)	61.7	(X)	91.7	(X)	84.7	(X)
Cost of purchased communication services	6.1	5	1.4	3	16.9	1
Response coverage ratio[2] (percent)	71.1	(X)	90.4	(X)	98.6	(X)
Rental payments	24.4	7	2.8	2	1.1	1
Buildings and other structures	14.0	7	1.1	2	0.5	1
Machinery and equipment	10.3	13	1.7	2	0.6	1
Supplemental labor costs	115.0	1	32.5	1	19.1	1
Legal costs	50.4	1	10.8	1	7.0	1
Voluntary costs	64.5	2	21.6	1	12.0	1
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning or year	314.4	3	86.2	2	48.2	1
New capital expenditures	20.6	4	11.1	1	3.7	1
Used capital expenditures	0.9	1	0.8	1	-	(X)
Retirements	4.8	5	0.3	10	0.1	1
End of year	331.2	3	97.9	1	51.8	1
Machinery and equipment:						
Beginning of year	627.7	2	213.0	1	129.4	1
New capital expenditures	85.1	3	23.6	1	18.3	1
Automobiles, trucks, etc., for highway use[3]	(2.5)	(A)	(0.2)	(A)	(0.1)	(A)
Computers and peripheral data processing equipment[3]	(0.5)	(A)	-	(X)	(0.2)	(A)
All other[3]	(68.8)	(A)	16.0	(A)	(18.0)	(A)
New machinery and equipment, n.s.k.[4]	(13.4)	(A)	(7.4)	(A)	-	(X)
Used capital expenditures	2.9	13	10.1	1	0.3	1
Retirements	24.8	5	3.4	3	3.6	1
End of year	690.9	2	243.3	1	144.3	1
Total gross value of depreciable assets:						
Beginning of year	942.1	2	299.2	1	177.6	1
New capital expenditures	105.7	3	34.7	1	21.9	1
Used capital expenditures	3.8	10	11.0	1	0.3	1
Retirements	29.6	4	3.7	3	3.7	1
End of year	1,022.1	2	341.2	1	196.1	1
Depreciation charges during 1977	65.6	2	11.8	1	8.9	1
Buildings and other structures	16.4	3	2.3	1	1.7	1
Machinery and equipment	49.2	2	9.5	1	7.2	1

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2061, RAW CANE SUGAR												
Total	-	65	8.0	95.8	6.3	13.6	70.8	275.7	440.1	704.0	43.4	107.9
Establishments with an average of—												
1 to 4 employees	E5	6	(Z)	(0.2)	(Z)	(Z)	(0.1)	(0.4)	(0.8)	(1.1)	(0.1)	(0.1)
5 to 9 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	-	3	(Z)	0.3	(Z)	0.1	0.2	1.1	1.3	2.4	(D)	0.2
20 to 49 employees	-	5	0.2	2.2	0.2	0.4	1.8	4.7	13.9	14.9	1.0	5.4
50 to 99 employees	-	25	1.6	16.8	1.4	3.3	14.1	47.9	116.4	147.0	6.3	45.9
100 to 249 employees	-	18	2.7	33.8	2.1	4.2	25.0	120.7	168.4	295.1	27.0	31.7
250 to 499 employees	-	4	1.4	20.6	1.1	2.5	15.4	31.6	103.8	138.4	(8.9)	14.9
500 to 999 employees	-	3	2.0	22.0	1.4	3.0	14.3	69.3	35.5	105.1	(D)	9.8
Covered by administrative records[2]	E0	4	(Z)	0.1	(Z)	(Z)	0.1	0.2	0.3	0.6	0.1	0.1
INDUSTRY 2062, CANE SUGAR REFINING												
Total	-	40	10.2	168.9	7.2	15.4	116.4	526.2	1 755.1	2 260.0	53.4	345.1
Establishments with an average of—												
1 to 4 employees	E1	8	(Z)	0.3	(Z)	(Z)	0.2	(S)	8.2	11.1	0.1	0.4
5 to 9 employees	-	4	(0.1)	(1.4)	(0.1)	(0.2)	(1.3)	(10.1)	(34.3)	(44.4)	(1.0)	(4.8)
10 to 19 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	E1	5	0.3	5.3	0.2	0.4	3.2	27.7	75.1	100.3	0.5	25.6
100 to 249 employees	-	5	0.7	9.9	0.6	1.4	8.1	43.4	148.0	179.7	(23.3)	42.0
250 to 499 employees	-	5	1.7	25.1	1.0	1.9	15.4	49.8	294.8	353.8	(D)	68.8
500 to 999 employees	-	9	(7.3)	(126.8)	(5.3)	(11.4)	(88.3)	(396.3)	(1 194.6)	(1 570.7)	(28.5)	(202.5)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	5	(Z)	0.2	(Z)	(Z)	0.1	0.7	2.5	3.1	(Z)	0.4
INDUSTRY 2063, BEET SUGAR												
Total	-	57	11.4	143.3	9.9	21.3	119.0	345.8	836.2	1 181.7	43.5	467.1
Establishments with an average of—												
1 to 4 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
5 to 9 employees	-	2	(6.1)	(80.1)	(5.3)	(11.7)	(67.5)	(174.9)	(479.2)	(688.5)	(26.5)	(251.9)
20 to 49 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	-	38	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	-	12	(5.4)	(63.2)	(4.7)	(9.6)	(51.5)	(178.7)	(356.9)	(493.2)	(17.0)	(215.2)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
INDUSTRY 2065, CONFECTIONERY PRODUCTS												
Total	-	962	58.0	584.2	47.0	89.1	415.5	2 024.3	2 478.1	4 494.7	115.5	450.2
Establishments with an average of—												
1 to 4 employees	E9	386	0.5	5.1	0.5	0.8	3.6	12.2	18.3	32.2	0.9	3.3
5 to 9 employees	E8	121	0.8	7.1	0.7	1.2	4.9	17.8	23.6	41.5	0.9	4.2
10 to 19 employees	E4	112	1.5	13.8	1.2	2.3	9.5	37.2	51.1	88.3	2.5	9.1
20 to 49 employees	-	134	4.5	39.9	3.6	6.6	25.1	103.3	149.3	249.5	4.7	31.3
50 to 99 employees	-	79	5.5	49.4	4.5	8.6	33.4	144.2	233.1	378.6	11.0	53.5
100 to 249 employees	-	74	11.1	106.8	9.0	17.6	74.8	304.7	405.3	707.3	24.5	106.5
250 to 499 employees	-	34	12.1	120.0	9.9	18.7	80.9	358.8	602.0	953.2	31.4	97.0
500 to 999 employees	-	17	12.1	123.1	9.6	18.3	88.9	482.9	484.1	969.7	28.3	77.8
1,000 to 2,499 employees	-	4	(9.6)	(119.0)	(8.0)	(14.9)	(94.2)	(563.3)	(511.2)	(1 074.6)	(11.2)	(67.4)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	483	1.8	16.9	1.6	2.8	11.8	43.6	58.2	101.7	2.3	10.5
INDUSTRY 2066, CHOCOLATE AND COCOA PRODUCTS												
Total	-	56	10.0	130.2	7.2	13.9	84.0	640.6	998.3	1 629.2	35.0	175.1
Establishments with an average of—												
1 to 4 employees	E9	17	(Z)	0.2	(Z)	(Z)	0.2	0.8	1.4	2.2	(Z)	0.3
5 to 9 employees	-	7	(Z)	0.8	(Z)	0.1	0.4	3.2	10.4	13.7	0.1	1.2
10 to 19 employees	E8	5	0.1	0.9	0.1	0.1	0.6	3.2	6.0	9.2	0.1	1.3
20 to 49 employees	-	8	0.3	3.7	0.2	0.4	2.2	14.2	61.6	75.2	(0.7)	11.8
50 to 99 employees	-	5	0.4	5.3	0.3	0.7	3.7	18.1	104.7	121.7	(D)	17.8
100 to 249 employees	-	5	0.8	10.0	0.6	1.2	6.5	56.3	156.2	211.0	(12.8)	25.2
250 to 499 employees	-	4	1.3	17.9	1.0	2.1	12.1	41.3	191.7	228.8	(D)	18.8
500 to 999 employees	-	3	(7.1)	(91.7)	(5.0)	(9.4)	(58.3)	(503.5)	(464.3)	(966.4)	(21.3)	(98.7)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	20	0.1	1.1	0.1	0.1	0.7	3.8	6.8	10.7	0.2	1.5
INDUSTRY 2067, CHEWING GUM												
Total	-	18	7.7	83.9	6.0	11.8	62.7	335.5	233.0	566.5	22.1	116.4
Establishments with an average of—												
1 to 4 employees	E0	2	(0.1)	(0.7)	(0.1)	(0.1)	(0.5)	(3.1)	(2.0)	(5.1)	(0.2)	(0.9)
5 to 9 employees	E0	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E0	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	-	3	(2.4)	(25.9)	(1.9)	(3.7)	(17.8)	(101.7)	(83.4)	(185.5)	(4.2)	(34.1)
100 to 249 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	-	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	4	5.2	57.2	4.0	7.8	44.4	230.6	147.6	375.9	17.8	81.4
Covered by administrative records[2]	E0	4	(Z)	0.2	(Z)	(Z)	0.2	0.8	0.6	1.4	0.1	0.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2061	**Raw cane sugar:**										
	Entire industry	65	8.0	95.8	6.3	13.6	70.8	275.7	440.1	704.0	43.4
	Establishments with 75 percent specialization or more	65	8.0	95.8	6.3	13.6	70.8	275.7	440.1	704.0	43.4
2062	**Cane sugar refining:**										
	Entire industry	40	10.2	168.9	7.2	15.4	116.4	526.2	1 755.1	2 260.0	53.4
	Establishments with 75 percent specialization or more	36	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2063	**Beet sugar:**										
	Entire industry	57	11.4	143.3	9.9	21.3	119.0	345.6	836.2	1 181.7	43.5
	Establishments with 75 percent specialization or more	52	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2065	**Confectionery products:**										
	Entire industry	962	58.0	584.2	47.0	89.1	415.5	2 024.3	2 478.1	4 494.7	115.5
	Establishments with 75 percent specialization or more	926	53.2	536.8	43.4	82.1	386.9	1 861.7	2 152.3	4 013.8	94.2
20652	Chocolate and chocolate-type confectionery products:										
	Establishments with this product class primary	148	23.8	235.8	19.1	35.1	164.8	797.6	923.1	1 715.2	43.5
	Establishments with 75 percent specialization or more in class	103	18.0	179.4	14.7	27.1	130.6	650.5	760.5	1 410.9	24.8
20653	Nonchocolate confectionery products:										
	Establishments with this product class primary	136	21.8	229.1	18.0	34.5	169.6	722.7	661.1	1 379.1	47.2
	Establishments with 75 percent specialization or more in class	109	13.3	131.1	10.9	20.7	93.4	417.2	416.0	829.1	26.9
20656	Confectionery products, n.e.c.:										
	Establishments with this product class primary	76	8.5	85.5	6.8	13.7	57.5	412.3	776.8	1 190.2	19.9
	Establishments with 75 percent specialization or more in class	58	5.6	55.3	4.5	9.1	38.0	326.8	466.4	801.7	13.8
2066	**Chocolate and cocoa products:**										
	Entire industry	56	10.0	130.2	7.2	13.9	84.0	640.6	996.3	1 629.2	35.0
	Establishments with 75 percent specialization or more	48	9.7	126.5	7.0	13.4	81.7	625.8	960.5	1 580.3	(D)
20661	Chocolate coatings:										
	Establishments with this product class primary	14	1.0	15.5	0.7	1.6	10.2	54.0	236.4	283.9	10.8
	Establishments with 75 percent specialization or more in class	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20662	Chocolate and chocolate-type confectionery products:										
	Establishments with this product class primary	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20668	Other chocolate and cocoa products:										
	Establishments with this product class primary	10	2.8	33.7	2.3	4.5	24.9	322.4	338.5	658.2	0.7
	Establishments with 75 percent specialization or more in class	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2067	**Chewing gum:**										
	Entire industry	18	7.7	83.9	6.0	11.6	62.7	335.5	233.0	566.5	22.1
	Establishments with 75 percent specialization or more	18	7.7	83.9	6.0	11.6	62.7	335.5	233.0	566.5	22.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2061	Raw cane sugar....1977..	704.0	698.7		5.3	100	707.6	698.7	8.9	99
	1972..	406.5	401.7	2.1	2.7	99	419.5	401.7	17.8	96
	1967..	368.5	362.5	1.4	4.6	100	363.5	362.5	1.0	100
2062	Cane sugar refining....1977..	2,260.0	2,161.4	29.7	68.9	99	2,168.0	2,161.4	6.6	100
	1972..	1,742.7	1,703.4	14.9	24.4	99	1,746.4	1,703.4	43.0	98
	1967..	1,375.7	1,335.3	1.0	39.4	100	1,336.2	1,335.3	0.9	100
2063	Beet sugar....1977..	1,181.6	1,147.6	8.5	25.5	99	1,160.4	1,147.6	12.8	99
	1972..	880.2	(D)	(D)	8.8	99	866.4	(D)	(D)	100
	1967..	560.7	(D)	(D)	9.6	100	550.8	(D)	(D)	100
2065	Confectionery products....1977..	4,494.8	3,929.6	216.8	348.4	95	4,170.2	3,929.6	240.6	94
	1972..	2,472.5	2,213.8	118.6	140.1	95	2,334.8	2,213.8	121.0	95
	1967..	1,870.2	1,712.0	61.8	96.5	97	1,812.7	1,712.0	100.7	94
2066	Chocolate and cocoa products....1977..	1,629.2	1,503.4	95.3	30.5	94	1,603.3	1,503.4	99.9	94
	1972..	735.5	673.0	50.4	12.1	93	[1]896.5	673.0	[1]223.5	75
	1967..	520.3	497.9	19.3	3.1	96	[1]666.6	497.9	[1]168.7	75
2067	Chewing gum....1977..	566.6	502.4	45.6	18.6	92	649.3	502.4	146.9	77
	1972..	382.6	337.3	38.9	6.4	90	384.6	337.3	47.3	88
	1967..	303.7	258.7	40.8	4.2	86	271.9	258.7	13.2	95

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

[1]Includes confectionery-type chocolate made from purchased chocolate. Also includes other chocolate products, e.g., cooking chocolate and chocolate sirup made from purchased chocolate (see table 6a, product codes 20998 11 to 20998 96). If coverage ratio were confined exclusively to industry 2066, it would have been 93 percent for 1972 and 98 percent for 1967, because establishments in industry 2066 are almost exclusively engaged in making chocolate from cacao beans.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Raw cane sugar (SIC 2061)	Cane sugar refining (SIC 2062)	Beet sugar (SIC 2063)	Confectionery products (SIC 2065)	Chocolate and cocoa products (SIC 2066)	Chewing gum (SIC 2067)	Other industries
	Total	(X)	704.0	2,260.0	1,181.6	4,494.8	1,629.2	566.6	(X)
	Primary products	(X)	698.7	2,161.4	1,147.6	3,929.6	1,503.4	502.4	(X)
	Secondary products	(X)	-	29.7	8.5	216.8	95.3	45.6	(X)
	Miscellaneous receipts	(X)	5.3	68.9	25.5	348.4	30.5	18.6	(X)
20610	Cane sugar mill products and byproducts	707.6	698.7	(D)	-	-	-	-	(D)
20620	Refined cane sugar and byproducts	2,168.0	-	2,161.4	(D)	-	-	-	(D)
20630	Refined beet sugar and byproducts	1,160.4	-	(D)	1,147.6	-	-	-	(D)
2065-	Confectionery products	4,170.2	-	-	-	3,929.6	(D)	(D)	157.2
20652	Chocolate and chocolate-type confectionery products	1,709.3	-	-	-	1,679.2	(D)	(D)	(D)
20653	Nonchocolate confectionery products	1,241.7	-	-	-	1,117.3	(D)	(D)	71.3
20658	Confectionery products, n.e.c.	1,004.0	-	-	-	923.9	(D)	(D)	79.7
20650	Confectionery products, n.s.k.	215.2	-	-	-	209.2	(D)	-	(D)
2066-	Chocolate and cocoa products	1,603.3	-	-	-	6.5	1,503.4	-	93.4
20661	Chocolate coatings	340.9	-	-	-	(D)	336.8	-	(D)
20662	Chocolate and chocolate-type confectionery products	565.4	-	-	-	(D)	(D)	-	-
20668	Other chocolate and cocoa products	680.6	-	-	-	-	(D)	-	(D)
20660	Chocolate and cocoa products, n.s.k.	16.4	-	-	-	-	(D)	-	(D)
20670	Chewing gum and chewing gum base	649.3	-	-	-	44.9	-	502.4	102.1
	Other shipments by 4-digit product group:								
2023-	Condensed and evaporated milk	(X)	-	-	-	-	(D)	-	(X)
2033-	Canned fruits and vegetables	(X)	-	(D)	(D)	(D)	(D)	-	(X)
2034-	Dehydrated fruits, vegetables, and soups	(X)	-	-	-	(D)	(D)	-	(X)
2046-	Wet corn milling products	(X)	-	(D)	-	-	-	-	(X)
2051-	Bread, cake, and related products	(X)	-	-	-	(D)	-	-	(X)
2052-	Cookies and crackers	(X)	-	-	-	(D)	-	-	(X)
2076-	Vegetable oil mill products, n.e.c.	(X)	-	-	-	44.9	-	-	(X)
2087-	Flavoring extracts and sirups, n.e.c.	(X)	-	(D)	-	(D)	(D)	-	(X)
2099-	Food preparations, n.e.c.	(X)	-	(D)	(D)	55.0	(D)	-	(X)
2834-	Pharmaceutical preparations	(X)	-	-	-	(D)	-	-	(X)
2844-	Toilet preparations	(X)	-	-	-	-	-	(D)	(X)
2873-	Nitrogenous fertilizers	(X)	-	-	-	(D)	-	-	(X)
2879-	Agricultural chemicals, n.e.c.	(X)	-	-	-	(D)	-	-	(X)
	Miscellaneous receipts:								
93000 00	Contract work	(X)	(D)	(D)	-	4.9	-	(D)	(X)
99980 98	Other miscellaneous receipts	(X)	2.8	(D)	(D)	11.8	(D)	(D)	(X)
99989 00	Resales	(X)	(D)	26.3	(D)	331.6	(D)	10.4	(X)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2065-	2032 Canned specialties	(D)
	2033 Canned fruits and vegetables	6.8
	2035 Pickles, sauces and salad dressings	(D)
	2047 Dog, cat, and other pet food	(D)
	2052 Cookies and crackers	27.8
	2087 Flavoring extracts and sirups, n.e.c.	(D)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products--Con.	
2065-	2099 Food preparations, n.e.c.	(D)
	2834 Pharmaceutical preparations	(D)
2066-	2099 Food preparations, n.e.c.	(D)
2067-	2834 Pharmaceutical preparations	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	RAW CANE SUGAR						
2061- --	Total	.....	(NA)	(X)	707.6	(NA)	419.5
20610 --	Sugarcane mill products and byproducts:						
20610 11	Raw cane sugar	1,000 s. tons.	37	2,510.3	641.0	2,182.1	374.0
	Other sugarcane mill products and byproducts:						
20610 65	Molasses and sirup, including sugarcane and blackstrap, except refiners' blackstrap		39	1,095.5	30.9	(NA)	18.3
20610 85	All other sugarcane mill products and byproducts, including sugar for consumer use without further processing, bagasse, etc		12	(NA)	6.7	(NA)	7.7
20610 00	Raw cane sugar and byproducts, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	19.4	[3]23.0	6.2
20610 02	Raw cane sugar and byproducts, n.s.k., typically for establishments with less than 5 employees (see note)	1,000 s. tons.	(NA)	(X)	.6	[3]134.3	13.3
	REFINED CANE SUGAR AND BYPRODUCTS						
2062- --	Total	.....	(NA)	(X)	2,168.0	(X)	1,746.4
20620 --	Refined cane sugar and byproducts:						
	Refined cane sugar:						
	Granulated cane sugar, including cube and tablet sugar:						
20620 09	Shipped in individual services (small paper packets)	1,000 s. tons.	6	38.9	21.9	43.8	20.7
20620 12	Shipped in consumer units (cartons and sacks of 25 pounds or less)		12	1,570.7	537.6	1,446.9	362.2
20620 14	Shipped in commercial units (bags and other containers of more than 25 pounds)		15	1,217.4	365.6	1,408.0	323.4
20620 15	Shipped in bulk (rail cars, trucks, or bins)		13	1,576.2	373.9	1,771.6	371.3
	Confectioners' powdered sugar:						
20620 31	Shipped in consumer units (containers of 10 pounds or less)		8	63.2	36.0	72.4	23.7
20620 35	Shipped in commercial units (containers of more than 10 pounds)		12	241.4	79.1	227.0	58.3
	Soft or brown sugar:						
20620 41	Shipped in consumer units (containers of 10 pounds or less)		7	62.2	38.7	78.7	25.3
20620 45	Shipped in commercial units (containers of more than 10 pounds)	1,000 s. tons.	7	145.1	52.6	156.1	38.0
	Liquid sugar or sugar sirup:						
20620 53	Sucrose type	1,000 s. tons, sugar solids.	14	988.0	264.0	860.6	197.3
20620 56	Invert and/or partially invert type	1,000 s. tons, sugar solids.	12	1,264.9	359.9	1,313.7	306.1
20620 75	Other cane sugar refining products and byproducts, including refiners' blackstrap and sirup	1,000 s. tons.	7	76.0	20.8	(NA)	10.9
20620 00	Refined cane sugar and byproducts, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	14.8	(X)	9.2
20620 02	Refined cane sugar and byproducts, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	3.1		
	BEET SUGAR						
2063- --	Total	1,000 s. tons..	(NA)	5,438.6	1,160.4	6,095.2	866.4
20630 --	Refined beet sugar and byproducts		(NA)	3,129.9	1,008.8	3,482.8	764.4
	Granulated beet sugar:						
20630 07	Shipped in individual services (small paper packets) and in consumer units (cartons and sacks of 25 pounds or less)		9	377.7	126.0	502.4	114.6
20630 13	Shipped in commercial units (bags and other containers of more than 25 pounds)		11	648.6	210.5	819.0	177.5
20630 15	Shipped in bulk (rail cars, trucks, or bins)		10	1,679.8	538.2	1,630.6	356.8
20630 33	Confectioners' powdered sugar	1,000 s. tons.	8	70.1	24.7	108.7	25.0
	Liquid sugar or sugar sirup:						
20630 51	Sucrose type	1,000 s. tons, sugar solid.	6	148.4	45.1	217.0	46.8
20630 55	Invert and/or partially invert type	1,000 s. tons, sugar solid.	7	205.3	64.3	205.1	43.7
	Other beet sugar factory products and byproducts	1,000 s. tons.	(NA)	2,306.0	151.0	2,585.8	96.3
20630 75	Whole or straighthouse molasses		11	503.8	23.9	578.8	17.0
20630 81	Discard molasses		3	264.2	11.6	206.1	7.7
20630 82	Molasses beet pulp, bulk		7	479.2	39.3	1,374.9	62.3
20630 84	Molasses beet pulp, pelletized		10	911.9	67.6		
20630 89	All other beet pulp, including dried beet pulp (plain) and wet beet pulp (estimated dry weight basis)	1,000 s. tons.	5	146.9	8.6	426.0	9.3
20630 00	Beet sugar products n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	2.7	.6	26.6	5.7
20630 02	Beet sugar products n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	-	-		-

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	CONFECTIONERY PRODUCTS						
2065- --	Total	Million lb	(NA)	(X)	[4]4,170.2	(X)	2,334.8
20652 --	Chocolate and chocolate-type confectionery products (made from purchased chocolate):						
20652 10	Chocolate and chocolate-type confectionery products (made from purchased chocolate), including bar goods, package goods, specialties, bulk goods, count goods, molded confections, etc		146	*1,342.6	1,709.3	3,506.4	1,704.3
20653 --	Nonchocolate-type confectionery products:						
20653 10	Nonchocolate-type confectionery products, including bar goods, package goods, specialties, bulk goods, count goods, etc		180	*1,782.8	1,241.7		
20658 --	Confectionery products, n.e.c		(NA)	(X)	1,004.0	(X)	526.8
	Nuts (salted, roasted, cooked, or blanched):						
	Sold in bulk:						
20658 13	Peanuts, shipped separately		26	382.1	137.7	303.9	136.4
20658 15	Mixed nuts, including four or more varieties		17	*10.3	16.5		
20658 17	Other nuts, shipped separately or with three or less varieties		23	97.3	64.4		
	Canned nutmeats:						
20658 33	Peanuts, shipped separately		22	115.4	108.7	229.0	173.0
20658 35	Mixed nuts, including four or more varieties		21	55.9	91.2		
20658 37	Other nuts, canned separately or with three or less varieties		22	33.9	76.7		
	Other packaged nutmeats:						
20658 53	Peanuts, shipped separately		28	139.4	109.3	265.5	166.0
20658 55	Mixed nuts, including four or more varieties		22	25.1	40.9		
20658 57	Other nuts, packaged separately or with three or less varieties		27	178.4	257.3		
20658 76	Glace, candied and crystallized fruits, fruit peels, nuts, and other substances		19	(D)	(D)	55.1	24.7
20658 21	Cough drops, except pharmaceutical type		2	(D)	(D)	15.1	21.5
29658 00	Confectionery products, n.s.k	Million lb	(NA)	(X)	10.7	(X)	5.2
20650 00	Confectionery products, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	113.5	(X)	58.7
20650 02	Confectionery products, n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	101.7	(X)	45.0
	CHOCOLATE AND COCOA PRODUCTS						
2066- -- 2099 pt.	Total	Million lb	(NA)	(X)	3,523.1	(5)	(5)
20661 --	Chocolate coatings		(NA)	(X)	340.9	507.9	167.0
20661 12	Sweet		10	56.1	56.5	67.8	24.3
20661 22	Milk		11	*131.7	125.3	220.3	84.8
20661 32	Liquor		7	25.8	48.6	37.5	17.5
20661 52	Confectionery (cocoa) coatings, including ice cream coatings (made from cocoa and fats other than cocoa butter)		8	146.3	109.1	167.3	39.2
20661 00	Chocolate coatings, n.s.k		(NA)	(X)	1.4	15.0	1.2
20662 -- 20652 --	Chocolate and chocolate-type confectionery products, including bar goods, package goods, specialties, bulk goods, count goods, molded confections, etc		(NA)	1,756.7	2,274.7	(5)	(5)
20652 10	Made from purchased chocolate		146	*1,342.6	1,709.3	(5)	(5)
20662 00	Made by chocolate manufacturers		12	414.3	565.4	378.4	288.7
20668 -- 20998 --	Other chocolate and cocoa products		(NA)	(X)	888.1	855.6	318.2
2099 pt.	Made from purchased chocolate		(NA)	(X)	207.5	183.5	55.7
2066 pt.	Made by chocolate manufacturers		(NA)	(X)	680.6	672.1	262.5
	Chocolate, except coatings for baking, cooking, etc.:						
20668 11 20998 11	Unsweetened		3	33.3	61.8	34.6	17.4
20668 21 20998 21	Sweetened		7	166.2	224.8	141.9	75.8
	Cocoa, powdered:						
	Unsweetened:						
20668 61 20998 61	In cans or packages of 2 1/2 pounds or less		2	97.9	168.9	154.8	46.1
20668 65 20998 65	In other containers and in bulk (barrels, drums, bags, etc.)	Million lb	13				

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972**—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	CHOCOLATE AND COCOA PRODUCTS--Con.						
20668 -- 20998 --	Other chocolate and cocoa products--Con.						
	Cocoa, powdered--Con.						
	Sweetened or mixed with other substances:						
20668 71 20998 71	In cans or packages of 2 1/2 pounds or less	Million lb.	15	202.7	218.1	207.6	86.5
20668 75 20998 75	In other containers and in bulk barrels, drums, bags, etc.)		12	57.3	61.4	65.4	26.7
20668 81	Cocoa butter		6	11.9	29.4	20.2	12.7
	Chocolate sirups:						
	Chocolate liquor base:						
20668 92 20998 92	In cans or packages of 16 ounces or less		5	(S)	15.2	11.8	4.9
20668 93 20998 93	In other containers or bulk		6	34.2	19.8	22.2	4.6
	Cocoa powder base:						
20668 94 20998 94	In cans or packages of 16 ounces or less		2	160.8	74.6	181.3	37.3
20668 96 20998 96	In other containers or bulk		21				
20668 00 20998 00	Chocolate and cocoa products, except confectionery type, n.s.k.	Million lb.	(NA)	(X)	14.1	15.8	6.2
20660 00	Chocolate and cocoa products, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	5.7	8.1	5.8
20660 02	Chocolate and cocoa products, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	10.7		
	CHEWING GUM						
2067- --	Total	Million lb.	(NA)	(X)	649.3	482.0	384.8
20670 --	Chewing gum and chewing gum base:						
	Chewing gum, not medicated:						
20670 12	Nondietetic		10	373.6	445.1	395.2	313.6
20670 13	Dietetic		6	53.0	136.9	(D)	(D)
20670 15	Chewing gum base	Million lb.	4	103.1	58.5	(D)	(D)
20670 00	Chewing gum, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	7.4	-	-
20670 02	Chewing gum, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	1.4	-	.3

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 5 employees were estimated from administrative records data rather than data actually collected from respondent. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]Quantity was estimated based on quantity-value relationship of all other products in this industry.

[4]Excludes confectionery-type chocolate made by chocolate manufacturers (see product class 20662) and chocolate and cocoa products.

[5]No data comparable with 1977 data exist because of significant alterations in product classes. 1972 product codes that would comprise 1977 product code 20652 10 are 20651 00 pt., 20652 00 pt., 20653 00 pt., 20654 00 pt., 20655 11 pt., and 20657 81 to 20657 87. 1972 product codes that would comprise 1977 product code 20653 10 are 20651 00 pt., 20652 00 pt., 20653 00 pt., 20654 00 pt., and 20655 11 pt.

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20652, CHOCOLATE AND CHOCOLATE-TYPE CONFECTIONERY PRODUCTS		
United States	1,709.3	(NA)
New England Division:		
Massachusetts	105.9	CC
Middle Atlantic Division:		
New York	71.6	FF
Pennsylvania	267.8	9.8
East North Central Division:		
Ohio	51.1	BB
Indiana	46.3	AA
Illinois	483.3	56.9
Wisconsin	29.7	4.7
West North Central Division:		
Minnesota	16.0	(NA)
Missouri	10.2	CC
South Atlantic Division:		
Florida	2.3	(NA)
East South Central Division:		
Tennessee	11.9	BB
Mountain Division:		
Utah	4.4	(NA)
Pacific Division:		
California	86.6	13.6
Hawaii	7.1	(NA)
20653, NONCHOCOLATE CONFECTIONERY PRODUCTS		
United States	1,241.7	(NA)
New England Division:		
Massachusetts	32.2	GG
Middle Atlantic Division:		
New York	133.4	13.5
New Jersey	37.3	55.3
Pennsylvania	72.7	64.3
East North Central Division:		
Illinios	470.4	268.2
West North Central Division:		
Missouri	47.9	7.4
South Atlantic Division:		
Maryland	8.4	4.6
Georgia	41.4	23.9
East South Central Division:		
Tennessee	26.0	EE
West South Central Division:		
Texas	41.1	10.0

Product class and geographic area	Value of product shipments	
	1977	1972
20653, NONCHOCOLATE CONFECTIONERY PRODUCTS--Con.		
Mountain Division:		
Utah	2.6	CC
Pacific Division:		
Washington	10.4	11.0
California	64.3	29.7
20658, CONFECTIONERY PRODUCTS, N.E.C.		
United States	1,004.0	526.8
New England Division:		
Massachusetts	10.0	11.4
Middle Atlantic Division:		
New York	6.7	8.8
New Jersey	18.1	19.8
Pennsylvania	7.3	24.0
East North Central Division:		
Ohio	27.5	18.8
Illinios	62.5	27.0
Michigan	9.2	4.6
West North Central Division:		
Missouri	23.6	CC
South Atlantic Division:		
Georgia	104.7	40.7
Pacific Division:		
California	67.9	68.9
20661, CHOCOLATE COATINGS		
United States	340.9	167.0
Middle Atlantic Division:		
Pennsylvania	128.4	GG
Pacific Division:		
California	43.8	FF
20662, CHOCOLATE AND CHOCOLATE-TYPE CONFECTIONERY PRODUCTS		
United States	565.4	288.7
Middle Atlantic Division:		
Pennsylvania	350.9	GG
20668, OTHER CHOCOLATE AND COCOA PRODUCTS		
United States	680.5	262.5
Middle Atlantic Division:		
Pennsylvania	149.4	GG
East North Central Division:		
Illinois	10.3	CC
Pacific Division:		
California	86.3	FF

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available. N.E.C. Not elsewhere classified.

Table 6c. Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
20610	Cane sugar mill products and byproducts	707.6	711.5	1,048.8	1,321.0	559.0	419.5	363.5	373.5
20620	Refined cane sugar and byproducts	2,168.0	2,524.2	3,379.4	4,424.4	1,925.3	1,746.4	1,336.2	1,255.0
20630	Refined beet sugar and byproducts	1,160.4	1,442.6	1,704.2	1,667.5	921.4	866.4	550.8	553.7
2065-	Confectionery products	4,170.2	3,688.8	3,422.9	3,074.1	2,524.1	2,334.8	1,812.7	1,393.9
20652	Chocolate and chocolate-type confectionery products	1,709.3	2,651.4	2,568.9	3,048.2	2,431.1	2,231.1	1,170.3	1,046.7
20653	Nonchocolate confectionery products	1,241.7							
20658	Confectionery products, n.e.c	1,004.0	949.8	805.9				526.8	316.8
20650	Confectionery products, n.s.k	215.2	(87.6)	(48.1)	(25.9)	93.0	103.7	115.6	30.4
2066-	Chocolate and cocoa products	1,603.3	1,258.8	1,132.5	1,074.8	813.7	724.0	546.4	480.6
20661	Chocolate coatings	340.9	270.4	253.5	244.6	202.6	167.0	137.8	139.6
20662	Chocolate and chocolate-type confectionery products	565.4	375.2	379.5	382.1	311.3	288.7	205.1	179.9
20668	Other chocolate and cocoa products	680.6	608.4	493.4	442.7	295.4	262.5	192.8	161.2
20660	Chocolate and cocoa products, n.s.k	16.4	4.8	(6.1)	(5.4)	4.4	5.8	10.7	(X)
20670	Chewing gum and chewing gum base	649.3	577.7	535.7	438.7	404.8	384.8	271.9	206.8

(X) Not applicable.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2061, RAW CANE SUGAR					
	Materials, containers, and supplies	.....	(NA)	393.2	(NA)	250.5
013321	Sugarcane	1,000 s.tons...	21,851.5	341.0	19,295.7	209.5
206101	Raw cane sugar (convert to 96° basis)	1,000 s.tons...	(NA)	(2)	(NA)	(2)
970099	All other materials and components, parts, containers, and supplies	.....	(X)	2 42.7	(X)	2 29.6
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	9.5	(X)	11.1
	INDUSTRY 2062, CANE SUGAR REFINING					
	Materials, containers, and supplies	.....	(NA)	1,658.9	(NA)	1,328.5
013321	Sugar cane	1,000 s.tons...	1,304.2	17.7	1,448.9	13.2
206101	Raw cane sugar (convert to 96° basis)		**7,111.2	1,528.0	6,891.5	1,252.3
260091	Paper and paperboard containers and shipping sacks	1,000 s.tons...	(S)	42.2	(NA)	29.0
970099	All other materials and components, parts, containers, and supplies	.....	(X)	42.1	(X)	33.6
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	28.9	(X)	.4
	INDUSTRY 2063, BEET SUGAR					
	Materials, containers, and supplies	.....	(X)	709.1	(X)	522.0
013311	Sugar beets	1,000 s. tons..	23,279.3	599.6	25,706.5	431.8
260091	Paper and paperboard containers, including shipping sacks	1,000 s. tons..	(S)	11.8	15.9	5.8
970099	All other materials and components, parts, containers, and supplies	.....	(X)	96.8	(X)	84.4
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	.9	(X)	(X)
	INDUSTRY 2065, CONFECTIONERY PRODUCTS					
	Materials, containers, and supplies	.....	(X)	2,173.8	(X)	1,236.2
206011	Sugar (cane and beet) in terms of sugar solids	1,000 cwt.....	10,470.4	194.6	13,059.7	156.1
017915	Cacao beans		103.4	17.7	186.2	6.3
206611	Chocolate coatings, including cocoa powder composition coatings	1,000 cwt.....	2,107.3	240.2	3,681.9	129.1
010012	Nuts, in shells, including peanuts	Million lb.....	810.9	210.5	397.7	92.7
206583	Nutmeats, including peanuts (purchased as such)		721.7	393.1	599.4	247.6
202000	Milk and milk products		(X)	86.8		
207007	Fats and oils, including shortening		68.5	26.4		
204602	Corn sirup		944.1	71.9	(X)	(2)
206688	Cocoa butter	Million lb.....	52.3	96.6		
286953	Essential oils and flavors, synthetic	.....	(X)	16.9		
	Containers:					
970015	Paperboard containers and converted flexible packaging materials	.....	(X)	244.6	(X)	179.6
341101	Metal cans	.....	(X)	33.7	(X)	(2)
322101	Glass containers	1,000 gross....	*1,619.8	25.2		
970099	All other materials and components, parts, containers, and supplies	.....	(X)	341.1	(X)	357.6
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	174.5	(X)	67.2
	INDUSTRY 2066, CHOCOLATE AND COCOA PRODUCTS					
	Materials, containers, and supplies	.....	(X)	967.0	(X)	439.3
206011	Sugar (cane and beet) in terms of sugar solids	1,000 cwt.....	6,472.2	114.5	6,855.4	82.0
017915	Cacao beans		3,716.8	494.4	5,569.1	162.2
206611	Chocolate coatings, including cocoa powder composition coatings	1,000 cwt.....	199.4	26.9	409.1	12.1
010012	Nuts, in shells, including peanuts	Million lb.....				
206583	Nutmeats, including peanuts (purchased as such)		27.6	14.1	40.3	16.9
202000	Milk and milk products		(X)	76.4		
207007	Fats and oils, including shortening		76.4	32.7		
204602	Corn sirup		**75.6	7.0	(X)	(2)
206688	Cocoa butter	Million lb.....	21.8	45.0		
286953	Essential oils and flavors, synthetic	.....	(X)	6.4		
	Containers:					
970015	Paperboard containers and converted flexible packaging materials	.....	(X)	35.5	(X)	44.1
970099	All other materials and components, parts, containers, and supplies	.....	(X)	105.1	(X)	2 118.8
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	9.0	(X)	3.2

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of Materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2067, CHEWING GUM					
	Materials, containers, and supplies	.....	(X)	217.7	(X)	142.0
206701	Chewing gum base, including chicle	.....	(X)	31.1	(X)	(4)
206011	Sugar (cane and beet) in terms of sugar solids	1,000 cwt.....	1,271.2	22.1	2,106.0	24.8
204602	Corn sirup	Million lb.....	43.2	4.0	(X)	(4)
286953	Essential oils and flavors, synthetic	.....	(X)	16.6	(X)	(4)
970015	Paperboard containers and converted flexible packaging materials	.....	(X)	41.0	(X)	
970099	All other materials and components, parts, containers, and supplies	.....	(X)	101.6	(X)	[4]80.5
971000	Materials, containers and supplies, n.s.k[3]	.....	(X)	1.3	-	-

- Represents zero. (NA) Not available. n.s.k. Not specified by kind. (S) Withheld because estimate did not met publication standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure. * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]These data were included with material code 970099.

[3]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[4]For 1972, material codes 206701, 204602, and 286953 were included with material code 970099.

Fats and Oils

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DESCRIPTION OF INDUSTRIES

FATS AND OILS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2074	Cottonseed Oil Mills
2075	Soybean Oil Mills
2076	Vegetable Oil Mills, N.E.C.
2077	Animal and Marine Fats and Oils
2079	Shortening and Cooking Oils

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2074, COTTONSEED OIL MILLS

This industry comprises establishments primarily engaged in the manufacture of cottonseed oil, and byproduct cake, meal, and linters. Establishments primarily engaged in refining cottonseed oil into edible cooking oils are classified in industry 2079.

The total value of shipments for establishments classified in the Cottonseed Oil Mills industry amounted to $859 million in 1977, an increase of 87 percent from 1972. The value of shipments of products classified as primary to the industry was $763 million, an increase of 86 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $197 million in 1977, was 124 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 5.2 thousand employees, a decrease of 5 percent from 1972. The leading States in employment were Texas, California, and Mississippi, accounting for approximately 65 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2075, SOYBEAN OIL MILLS

This industry comprises establishments primarily engaged in the manufacture of soybean oil, and byproduct cake and meal. Establishments primarily engaged in refining soybean oil into edible cooking oils are classified in industry 2079.

The total value of shipments for establishments classified in the Soybean Oil Mills industry amounted to $7,580 million in 1977, an increase of 126 percent from 1972. The value of shipments of products classified as primary to the industry was $6,117 million, an increase of 131 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $378 million in 1977, was 8 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 9.4 thousand employees, an increase of 3 percent from 1972. The leading States in employment were Illinois, Iowa, Indiana, and Minnesota, accounting for approximately 55 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for less than 1 percent of total value of shipments.

INDUSTRY 2076, VEGETABLE OIL MILLS, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of vegetable oils and byproduct cake and meal, except corn, cottonseed, and soybean. Establishments primarily engaged in the manufacture of corn oil and its byproducts are classified in industry 2046, those refining vegetable oils into

edible cooking oils in industry 2079, and those refining these oils for medicinal purposes in industry 2833.

The total value of shipments for establishments classified in the Vegetable Oil Mills, N.E.C. industry amounted to $361 million in 1977, an increase of 43 percent from 1972. The value of shipments of products classified as primary to the industry was $401 million, an increase of 52 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $58 million in 1977, was 30 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 1.5 thousand employees, an increase of 25 percent from 1972.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

INDUSTRY 2077, ANIMAL AND MARINE FATS AND OILS

This industry comprises establishments primarily engaged in the manufacturing of animal oils, including fish oil and other marine animal oils and fish and animal meal; and those rendering inedible grease and tallow from animal fat, bones, and meat scraps. Establishments primarily engaged in the manufacture of lard and edible tallow and stearin are classified in industry group 201; those refining marine animal oils for medicinal purposes in industry 2833; and those manufacturing fatty acids in industry 2899.

The total value of shipments for establishments classified in the Animal and Marine Fats and Oils industry amounted to $1,655 million in 1977, an increase of 116 percent from 1972. The value of shipments of products classified as primary to the industry was $2,102 million, an increase of 115 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $584 million in 1977, was 97 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 12.4 thousand employees, an increase of 7 percent from 1972. The leading States in employment were California, Pennsylvania, Texas, and North Carolina, accounting for approximately 25 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

INDUSTRY 2079, SHORTENING AND COOKING OILS

This industry comprises establishments primarily engaged in the manufacture of shortening, table oils, margarine, and other edible fats and oils, not elsewhere classified, by further processing of purchased animal and vegetable oils. Establishments primarily engaged in producing corn oil are classified in industry 2046.

The total value of shipments for establishments classified in the Shortening and Cooking Oils industry amounted to $4,025 million in 1977, an increase of 95 percent from 1972. The value of shipments of products classified as primary to the industry was $4,272 million, an increase of 88 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $692 million in 1977, was 35 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 12.7 thousand employees, a decrease of 2 percent from 1972. The leading States in employment were Illinois, California, Texas, and Ohio, accounting for approximately 50 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for less than 1 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2074, COTTONSEED OIL MILLS																
1977 Census	63	97	71	5.2	51.5	4.1	9.3	35.9	197.4	670.8	859.2	13.0	(NA)	195.4	88	89
1976 ASM	(NA)	(NA)	(NA)	4.9	44.3	3.8	8.2	29.3	128.7	629.0	756.5	11.7	184.1	256.5	(NA)	(NA)
1975 ASM[5]	(NA)	(NA)	(NA)	5.6	46.0	4.4	9.5	31.4	203.0	790.6	970.1	17.0	183.3	221.7	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	5.7	40.7	4.6	10.6	29.0	239.4	662.8	870.6	11.1	165.6	265.9	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	5.9	37.1	4.7	10.5	26.7	166.3	410.7	549.2	8.7	163.7	169.0	(NA)	(NA)
1972 Census	74	115	84	5.5	34.2	4.4	9.8	24.0	88.2	368.1	458.7	9.9	164.0	97.9	85	88
1971 ASM	(NA)	(NA)	(NA)	4.9	29.5	3.8	8.6	19.6	83.2	333.3	419.5	7.3	171.3	107.5	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	4.7	27.6	3.7	8.3	18.5	82.7	291.5	371.1	6.8	166.1	94.4	(NA)	(NA)
1969 ASM[6]	(NA)	(NA)	(NA)	5.7	31.1	4.4	9.9	21.2	61.5	319.8	387.8	6.5	175.7	92.5	(NA)	(NA)
1968 ASM[6]	(NA)	(NA)	(NA)	5.3	26.5	4.1	8.9	17.5	51.5	307.9	361.4	5.1	178.3	95.4	(NA)	(NA)
1967 Census	91	150	112	5.4	26.5	4.2	9.4	17.1	65.4	338.8	405.9	4.9	176.7	99.4	85	85
1966 ASM[6]	(NA)	(NA)	(NA)	7.1	33.9	5.6	13.7	22.2	104.0	465.3	560.6	2.4	(NA)	126.6	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	8.1	37.3	6.5	16.1	25.7	103.5	455.4	555.4	6.4	(NA)	126.6	(NA)	(NA)
1964 ASM[6]	(NA)	(NA)	(NA)	7.9	38.6	6.2	16.6	26.5	72.1	434.5	526.6	12.1	191.7	140.9	(NA)	(NA)
1963 Census	115	188	153	8.4	38.2	6.6	16.6	26.0	100.8	464.7	555.2	12.5	187.7	153.0	89	91
INDUSTRY 2075, SOYBEAN OIL MILLS																
1977 Census	55	121	87	9.4	130.7	6.6	14.7	87.8	377.9	7 012.8	7 580.0	72.3	(NA)	804.9	87	98
1976 ASM	(NA)	(NA)	(NA)	9.5	121.5	6.7	14.6	82.3	624.2	6 378.8	6 739.7	87.5	822.7	1 295.7	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	9.5	110.2	6.9	14.5	71.4	340.1	5 651.4	6 159.1	119.5	752.3	807.8	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	10.4	112.9	7.7	15.8	73.7	691.9	6 733.4	7 328.3	80.9	669.8	776.7	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	9.9	97.9	7.4	16.0	64.1	623.2	4 737.9	5 272.9	53.4	587.7	715.0	(NA)	(NA)
1972 Census	54	94	74	9.1	82.4	6.6	14.8	54.7	350.0	3 065.5	3 357.2	41.9	544.5	577.2	85	96
1971 ASM	(NA)	(NA)	(NA)	8.0	68.7	5.5	12.5	43.7	334.8	2 548.6	2 860.9	56.8	466.5	438.8	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	8.0	65.5	5.5	12.5	41.3	410.7	2 263.1	2 619.1	50.7	424.6	443.0	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	7.4	58.0	5.1	11.4	36.3	239.1	1 825.4	2 030.7	29.7	364.4	307.6	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	7.4	54.4	5.0	11.4	33.7	254.1	1 691.9	1 919.0	40.7	362.6	309.0	(NA)	(NA)
1967 Census	50	102	78	8.0	54.9	5.5	12.2	34.4	215.4	1 933.4	2 148.3	21.2	339.2	347.7	86	96
1966 ASM	(NA)	(NA)	(NA)	7.1	47.3	5.0	11.0	30.4	209.5	1 815.7	2 009.8	13.7	(NA)	256.7	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	6.6	42.6	4.6	10.1	27.1	157.4	1 552.8	1 731.8	17.7	(NA)	255.3	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	6.4	41.0	4.5	9.7	25.9	170.2	1 454.3	1 585.5	10.8	261.2	352.0	(NA)	(NA)
1963 Census	68	102	71	6.5	39.9	4.6	10.1	25.7	152.1	1 334.6	1 473.4	10.2	251.4	279.0	89	95
INDUSTRY 2076, VEGETABLE OIL MILLS, N.E.C.																
1977 Census	37	42	19	1.5	17.6	1.1	2.5	12.2	58.4	304.7	360.8	7.4	(NA)	89.3	86	58
1976 ASM	(NA)	(NA)	(NA)	r1.6	r17.7	r1.1	r2.4	r11.1	r58.5	r470.3	r526.1	r7.2	r61.4	r78.5	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	r1.6	r18.5	r1.1	r2.4	r10.7	r59.5	r490.1	r558.3	r3.1	r56.8	r89.3	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	r1.6	r17.5	r1.1	r2.5	r11.3	r103.1	r453.8	r542.3	r2.6	r51.2	r78.3	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	1.1	11.4	1.0	1.9	8.4	59.3	341.2	385.9	2.7	47.7	83.4	(NA)	(NA)
1972 Census	29	31	17	1.2	11.6	0.9	1.9	7.8	44.8	227.1	261.0	3.1	38.4	40.7	93	53
1971 ASM	(NA)	(NA)	(NA)	1.6	16.9	1.2	3.2	12.3	68.3	238.6	304.4	2.1	53.0	42.0	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	1.4	13.8	1.1	2.3	10.1	53.4	192.3	247.6	1.3	47.9	36.0	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	1.8	11.5	1.4	3.4	8.6	40.2	194.4	240.7	1.4	47.8	42.2	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	1.5	10.4	1.2	2.8	7.5	43.3	199.7	245.1	3.1	49.7	44.6	(NA)	(NA)
1967 Census	34	41	18	1.7	10.8	1.4	3.1	7.9	41.8	198.2	236.7	1.9	47.8	51.0	80	74
1966 ASM	(NA)	(NA)	(NA)	1.8	11.6	1.5	3.3	8.4	37.5	226.4	265.7	2.5	(NA)	46.8	(NA)	(NA)
1965 ASM[5]	(NA)	(NA)	(NA)	2.0	12.7	1.5	3.4	8.9	41.8	226.5	265.7	3.9	(NA)	50.6	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	2.0	12.6	1.5	3.3	8.6	43.8	203.3	251.9	1.4	42.4	46.0	(NA)	(NA)
1963 Census	39	47	22	2.0	11.5	1.5	3.2	8.1	42.7	194.4	234.2	1.6	41.1	52.2	84	83
INDUSTRY 2077, ANIMAL AND MARINE FATS AND OILS																
1977 Census	396	500	201	12.4	171.2	8.7	19.2	103.8	583.8	1 086.7	1 655.0	53.3	(NA)	70.2	94	68
1976 ASM	(NA)	(NA)	(NA)	11.2	142.9	7.9	16.5	89.3	488.2	845.9	1 328.0	42.7	392.2	48.6	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	11.1	135.7	7.6	16.4	88.3	382.2	715.8	1 097.4	49.7	364.9	41.5	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	10.2	122.0	7.1	15.8	77.7	439.1	906.3	1 341.0	26.4	303.7	42.2	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	12.8	141.8	9.2	20.9	84.9	544.2	797.9	1 321.4	44.4	373.7	50.4	(NA)	(NA)
1972 Census	402	511	196	11.6	106.0	8.4	18.5	68.3	296.7	470.4	764.7	31.0	289.5	29.3	94	68
1971 ASM	(NA)	(NA)	(NA)	12.4	111.9	9.0	19.5	68.6	278.1	580.4	865.9	43.4	251.6	30.4	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	12.9	108.6	9.4	21.2	66.1	291.0	531.9	822.5	28.5	251.6	32.8	(NA)	(NA)
1969 ASM[6]	(NA)	(NA)	(NA)	13.1	99.5	9.4	21.1	63.7	231.1	373.8	608.7	19.5	245.5	24.3	(NA)	(NA)
1968 ASM[6]	(NA)	(NA)	(NA)	13.1	92.8	9.2	20.1	58.7	192.8	318.0	515.1	18.7	239.0	24.6	(NA)	(NA)
1967 Census	477	588	226	13.7	91.8	9.5	21.7	58.2	206.0	349.1	557.9	21.7	227.8	28.9	94	67
1966 ASM	(NA)	(NA)	(NA)	13.3	89.3	8.7	19.8	50.6	306.6	460.0	765.3	22.6	(NA)	38.0	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	14.2	90.2	10.2	23.7	56.5	248.4	425.8	669.2	12.7	(NA)	39.4	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	14.2	84.5	10.4	23.9	54.7	210.7	347.3	550.4	14.7	237.1	36.2	(NA)	(NA)
1963 Census	516	615	211	14.3	78.3	10.3	22.7	51.3	193.3	280.4	474.0	13.7	228.4	29.9	94	66

See footnotes at end of table.

Table 1a. **Historical Statistics for the Industry: 1977 and Earlier Years**—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets		End-of-year inventories (million dollars)	Ratios	
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				New capital expenditures (million dollars)	Gross value of fixed assets (million dollars)		Specialization (percent)	Coverage (percent)
	INDUSTRY 2079, SHORTENING AND COOKING OILS															
1977 Census--	57	109	80	12.7	190.5	9.0	18.7	125.8	691.8	3 293.3	4 025.0	62.1	(NA)	324.3	89	77
1976 ASM----	(NA)	(NA)	(NA)	r13.0	r170.1	r9.3	r19.5	r114.3	r734.0	r2 748.3	r3 450.9	r42.1	r568.1	r355.9	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	r12.9	r161.3	r9.1	r19.1	r107.8	r664.3	r3 297.9	r3 996.5	r42.8	r554.4	r340.6	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	r13.1	r152.8	r9.2	r19.4	r102.6	r709.2	r3 360.6	r3 974.4	r28.7	r475.2	r395.0	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	13.3	147.0	9.5	20.3	98.6	619.7	2 278.8	2 848.5	33.7	485.1	251.2	(NA)	(NA)
1972 Census--	64	109	86	12.9	133.7	9.0	19.5	87.8	512.6	1 549.4	2 068.1	35.5	495.7	167.1	89	78
1971 ASM----	(NA)	(NA)	(NA)	12.7	121.8	8.7	18.0	81.9	493.3	1 541.0	2 026.8	29.7	403.9	163.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	13.5	120.4	9.5	20.3	79.2	490.2	1 429.8	1 903.5	34.2	385.8	158.1	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	15.1	125.8	10.5	22.4	82.2	494.9	1 298.2	1 799.4	30.1	470.0	153.8	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	14.8	119.0	10.3	21.9	76.5	469.5	1 228.2	1 706.4	34.7	461.7	155.4	(NA)	(NA)
1967 Census--	63	115	92	15.0	113.2	10.5	22.7	74.0	390.7	1 325.0	1 725.6	29.3	437.7	164.3	87	86
1966 ASM----	(NA)	(NA)	(NA)	13.6	99.4	10.2	20.5	64.2	350.4	1 352.9	1 687.6	17.3	(NA)	173.0	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	12.9	90.5	8.6	18.6	56.5	295.0	1 188.7	1 489.1	20.3	(NA)	139.5	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	11.8	83.2	7.6	17.0	51.7	272.3	1 050.6	1 325.7	22.7	370.5	147.7	(NA)	(NA)
1963 Census--	65	115	86	13.5	88.6	8.9	19.0	54.8	264.5	1 061.9	1 324.4	19.5	356.8	165.9	88	89

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2074, COTTONSEED OIL MILLS											
1977 Census--	9 953	(NA)	80	2 243	3.86	78	84	(NA)	38 182	26	21.23
1976 ASM----	9 040	37 571	77	2 157	3.57	83	89	24	26 265	34	15.69
1975 ASM----	8 214	32 732	78	2 159	3.30	81	86	18	36 250	22	21.36
1974 ASM----	7 140	29 052	80	2 304	2.73	76	80	19	42 000	17	22.58
1973 ASM----	6 288	27 745	79	2 234	2.54	74	81	29	28 186	22	15.83
1972 Census--	6 218	29 818	80	2 227	2.44	80	87	35	16 036	38	9.00
1971 ASM----	6 020	34 959	77	2 263	2.27	79	86	40	16 979	35	9.67
1970 ASM----	5 872	35 340	78	2 243	2.22	78	85	44	17 595	33	9.96
1969 ASM----	5 456	30 824	77	2 250	2.14	82	90	45	10 789	50	6.21
1968 ASM----	5 000	33 641	77	2 170	1.96	85	92	49	9 716	51	5.78
1967 Census--	4 907	33 092	77	2 238	1.81	83	89	44	12 111	40	6.95
1966 ASM----	4 774	(NA)	78	2 446	1.62	83	89	(NA)	14 647	32	7.59
1965 ASM----	4 604	(NA)	80	2 476	1.59	81	88	(NA)	12 777	36	6.42
1964 ASM----	4 886	24 265	78	2 677	1.59	82	89	36	9 126	53	4.34
1963 Census--	4 547	22 345	78	2 515	1.56	83	90	33	12 000	37	6.07
INDUSTRY 2075, SOYBEAN OIL MILLS											
1977 Census--	13 965	(NA)	70	2 208	5.98	92	94	(NA)	40 386	34	25.77
1976 ASM----	12 789	86 600	71	2 179	5.64	94	96	12	65 705	19	42.75
1975 ASM----	11 600	79 189	72	2 101	4.92	91	93	12	35 800	32	23.45
1974 ASM----	10 855	64 403	74	2 051	4.66	91	93	9	66 528	16	43.79
1973 ASM----	9 888	59 363	74	2 162	4.00	89	91	11	62 949	15	38.95
1972 Census--	9 054	59 835	72	2 242	3.69	91	93	16	38 461	23	23.64
1971 ASM----	8 587	58 312	68	2 272	3.49	89	91	16	41 850	20	26.78
1970 ASM----	8 187	53 075	68	2 272	3.30	86	89	16	51 337	16	32.85
1969 ASM----	7 837	49 243	68	2 235	3.18	89	92	17	32 310	24	20.97
1968 ASM----	7 351	49 000	67	2 280	2.95	88	91	18	34 337	21	22.28
1967 Census--	5 862	42 400	68	2 218	2.81	89	92	15	26 925	25	17.65
1966 ASM----	6 661	(NA)	70	2 200	2.76	90	92	(NA)	29 507	22	19.04
1965 ASM----	6 454	(NA)	69	2 195	2.68	89	92	(NA)	23 848	27	15.58
1964 ASM----	5 406	40 812	70	2 155	2.67	91	94	16	26 593	24	17.54
1963 Census--	6 138	38 676	70	2 195	2.54	90	93	17	23 400	26	15.05
INDUSTRY 2076, VEGETABLE OIL MILLS, N.E.C.											
1977 Census--	11 899	(NA)	75	2 187	4.94	84	89	(NA)	39 399	30	23.74
1976 ASM----	11 062	38 375	69	2 182	4.63	89	93	12	36 562	30	24.38
1975 ASM----	11 562	35 500	69	2 182	4.46	88	91	10	37 188	31	24.79
1974 ASM----	10 938	32 000	69	2 272	4.52	84	87	9	64 438	17	41.24
1973 ASM----	10 363	43 363	90	1 900	4.42	88	91	12	53 909	19	31.21
1972 Census--	9 656	32 000	75	2 111	4.10	87	91	14	37 333	25	23.57
1971 ASM----	10 562	33 125	75	2 666	3.84	78	83	17	42 687	24	21.34
1970 ASM----	9 857	34 214	78	2 090	4.39	77	83	19	38 142	25	23.21
1969 ASM----	8 388	26 555	77	2 428	2.52	80	85	19	22 333	28	11.82
1968 ASM----	6 933	33 133	80	2 333	2.67	81	85	20	28 866	24	15.46
1967 Census--	6 352	28 117	82	2 214	2.54	83	88	20	24 588	25	13.48
1966 ASM----	6 444	(NA)	83	2 200	2.54	85	89	(NA)	20 833	30	11.36
1965 ASM----	6 350	(NA)	75	2 266	2.61	85	90	(NA)	20 900	30	12.29
1964 ASM----	6 300	21 200	75	2 200	2.60	80	85	16	21 900	28	13.27
1963 Census--	5 750	20 550	75	2 133	2.53	83	87	17	21 350	26	13.34
INDUSTRY 2077, ANIMAL AND MARINE FATS AND OILS											
1977 Census--	13 821	(NA)	70	2 196	5.41	65	76	(NA)	47 122	29	30.47
1976 ASM----	12 758	35 017	70	2 088	5.41	63	74	29	43 589	29	29.58
1975 ASM----	12 225	32 873	68	2 157	5.38	65	77	33	34 432	35	23.30
1974 ASM----	11 960	29 774	69	2 225	4.91	67	76	22	43 049	27	27.79
1973 ASM----	11 078	29 195	71	2 271	4.06	60	71	28	42 515	26	26.03
1972 Census--	9 137	24 956	72	2 202	3.69	61	75	37	25 577	35	16.03
1971 ASM----	9 024	20 290	72	2 166	3.51	67	79	29	22 427	40	14.26
1970 ASM----	8 418	19 503	72	2 255	3.11	64	77	30	22 558	37	13.72
1969 ASM----	7 595	18 740	71	2 244	3.01	61	77	40	17 641	43	10.95
1968 ASM----	7 083	18 244	70	2 184	2.92	61	79	46	14 717	48	9.59
1967 Census--	6 700	16 627	69	2 284	2.68	62	79	40	15 036	44	9.49
1966 ASM----	6 714	(NA)	65	2 275	2.55	60	71	(NA)	23 052	29	15.48
1965 ASM----	6 352	(NA)	71	2 323	2.38	63	77	(NA)	17 492	36	10.48
1964 ASM----	5 951	16 697	73	2 298	2.28	63	78	43	14 838	40	8.81
1963 Census--	5 475	15 972	72	2 203	2.25	59	75	48	13 517	40	8.51

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2079, SHORTENING AND COOKING OILS										
1977 Census--	14 959	(NA)	70	2 080	6.71	81	86	(NA)	54 332	27	36.93
1976 ASM----	13 084	43 700	72	2 096	5.86	80	84	16	56 462	23	37.64
1975 ASM----	12 503	42 977	71	2 099	5.64	83	87	14	51 496	24	34.78
1974 ASM----	11 664	36 274	70	2 109	5.29	85	88	12	54 137	22	36.56
1973 ASM----	11 052	36 473	71	2 136	4.85	80	85	17	46 593	23	30.52
1972 Census--	10 364	38 426	69	2 166	4.50	74	81	23	39 736	26	26.28
1971 ASM----	9 590	31 803	68	2 068	4.55	76	82	19	38 842	24	27.40
1970 ASM----	8 918	28 577	70	2 136	3.90	75	81	20	36 311	24	24.14
1969 ASM----	8 331	31 125	69	2 133	3.66	72	79	26	32 774	25	22.09
1968 ASM----	8 040	31 195	69	2 126	3.49	71	78	27	31 722	25	21.43
1967 Census--	7 546	29 180	70	2 161	3.25	76	83	25	26 046	28	17.21
1966 ASM----	7 308	(NA)	75	2 009	3.13	80	86	(NA)	25 764	28	17.09
1965 ASM----	7 015	(NA)	66	2 162	3.03	79	85	(NA)	22 868	30	15.86
1964 ASM----	7 050	31 398	64	2 236	3.04	79	85	27	23 076	30	16.01
1963 Census--	6 562	26 429	65	2 134	2.88	80	86	26	19 592	33	13.92

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2074, COTTONSEED OIL MILLS													
United States	-	**97**	**71**	**5.2**	**51.5**	**4.1**	**9.3**	**35.9**	**197.4**	**670.8**	**859.2**	**13.0**	**5.5**	**88.2**
East South Central Division:													
Tennessee	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Alabama	-	6	5	0.2	1.7	0.2	0.4	1.1	4.6	11.8	16.8	(D)	BB	(D)
Mississippi	-	14	12	0.6	5.0	0.5	1.2	3.6	15.9	69.4	83.4	0.7	0.8	7.2
West South Central Division:														
Arkansas	-	8	6	0.3	2.9	0.3	0.6	2.1	14.4	29.0	45.8	(D)	0.7	11.7
Louisiana	-	6	4	0.2	1.7	0.2	0.4	1.3	6.8	19.8	26.5	0.1	AA	(D)
Oklahoma	-	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas	-	27	18	1.8	17.3	1.4	3.3	12.4	74.5	235.4	296.6	5.9	1.5	33.8
Mountain Division:														
Arizona	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
California	-	9	7	0.9	11.4	0.7	1.4	8.1	52.0	140.6	196.2	2.8	CC	(D)
INDUSTRY 2075, SOYBEAN OIL MILLS														
United States	-	**121**	**87**	**9.4**	**130.7**	**6.6**	**14.7**	**87.8**	**377.9**	**7 012.8**	**7 580.0**	**72.3**	**9.1**	**350.0**
East North Central Division:														
Ohio	-	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Indiana	-	7	5	0.9	12.3	0.6	1.2	8.0	38.8	530.8	565.0	(D)	CC	(D)
Illinois	-	16	15	2.6	39.8	2.0	4.2	28.6	64.6	1 645.5	1 741.0	22.9	EE	(D)
West North Central Division:														
Minnesota	-	7	5	0.6	9.3	0.3	0.7	5.5	64.6	515.2	605.4	6.4	BB	(D)
Iowa	-	19	13	1.0	13.9	0.7	1.5	9.0	66.9	1 115.8	1 216.1	10.9	0.8	38.6
Missouri	-	3	3	0.3	3.8	0.2	0.5	2.7	20.9	260.4	274.3	(D)	BB	(D)
Nebraska	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Kansas	-	4	4	0.2	2.7	0.2	0.4	1.9	9.2	234.2	250.3	1.1	0.2	21.7
South Atlantic Division:														
South Carolina	-	5	4	0.2	2.9	0.2	0.4	1.6	-7.6	127.5	126.2	(D)	(NA)	(NA)
Georgia	-	4	4	0.3	3.2	0.2	0.4	2.0	-24.7	235.4	251.2	(D)	BB	(D)
East South Central Division:														
Kentucky	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Tennessee	-	5	5	0.6	9.2	0.5	1.1	6.3	8.7	539.5	555.1	2.5	BB	(D)
Alabama	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mississippi	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West South Central Division:														
Arkansas	-	5	4	0.6	6.7	0.5	1.1	4.7	21.9	299.1	318.2	(D)	CC	(D)
Pacific Division:														
California	E2	7	3	0.2	2.6	0.2	0.4	2.0	1.9	7.8	9.6	(D)	(NA)	(NA)
INDUSTRY 2076, VEGETABLE OIL MILLS, N.E.C.														
United States	-	**42**	**19**	**1.5**	**17.6**	**1.1**	**2.5**	**12.2**	**58.4**	**304.7**	**360.8**	**7.4**	**1.1**	**43.0**
Middle Atlantic Division:														
New Jersey	-	3	3	0.3	4.7	0.2	0.5	3.2	10.2	41.4	54.7	(D)	AA	(D)
West North Central Division:														
Minnesota	-	5	3	0.2	3.9	0.2	0.4	2.9	20.1	133.7	153.0	(D)	BB	(D)
South Atlantic Division:														
North Carolina	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDUSTRY 2077, ANIMAL AND MARINE FATS AND OILS														
United States	-	**500**	**201**	**12.4**	**171.2**	**8.7**	**19.2**	**103.8**	**583.8**	**1 086.7**	**1 655.0**	**53.3**	**11.6**	**296.7**
New England Division:														
Maine	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Massachusetts	-	9	3	0.3	5.1	0.2	0.4	2.4	10.7	20.7	31.2	0.6	BB	(D)
Middle Atlantic Division:														
New York	E2	16	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	12.7
New Jersey	-	12	6	0.4	8.4	0.3	0.6	3.9	43.1	63.7	103.4	(D)	BB	(D)
Pennsylvania	-	28	12	0.8	10.9	0.4	1.0	5.3	30.5	81.5	111.2	3.6	CC	(D)
East North Central Division:														
Ohio	-	17	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Indiana	-	16	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	8.1
Illinois	-	21	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	13.6
Michigan	-	13	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Wisconsin	-	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West North Central Division:														
Minnesota	-	14	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	7.9
Iowa	-	19	6	0.4	4.9	0.3	0.6	3.4	26.0	49.5	75.0	3.3	0.3	7.5
Missouri	E1	12	4	0.2	2.0	0.1	0.3	1.4	7.2	11.0	18.1	(D)	(NA)	(NA)
Nebraska	E1	15	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Kansas	-	14	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.0

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2077, ANIMAL AND MARINE FATS AND OILS—Con.														
South Atlantic Division:														
Virginia	-	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
North Carolina	-	12	8	0.7	8.9	0.6	1.4	5.8	26.2	40.9	66.4	3.6	0.6	13.8
Georgia	-	12	5	0.2	3.2	0.1	0.3	1.4	14.4	27.2	41.1	1.2	AA	(D)
Florida	-	8	7	0.4	4.3	0.2	0.5	2.3	12.5	22.2	34.5	(D)	BB	(D)
East South Central Division:														
Tennessee	-	14	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	4.4
Alabama	-	9	5	0.2	2.7	0.2	0.4	1.8	5.9	11.9	17.6	0.8	0.3	5.2
Mississippi	-	6	4	0.2	3.3	0.2	0.4	2.3	12.4	11.6	22.9	1.0	AA	(D)
West South Central Division:														
Louisiana	-	13	9	0.5	5.5	0.5	1.0	4.4	27.1	25.6	52.0	(D)	0.5	12.7
Texas	-	37	11	0.8	7.9	0.5	1.3	5.2	27.3	62.6	88.8	3.0	CC	(D)
Mountain Division:														
Colorado	-	13	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	5.9
Pacific Division:														
Washington	-	14	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
California	-	42	17	1.0	18.7	0.7	1.6	12.2	66.8	158.9	226.0	3.8	1.2	42.3
INDUSTRY 2079, SHORTENING AND COOKING OILS														
United States	-	**109**	**80**	**12.7**	**190.5**	**9.0**	**16.7**	**125.8**	**691.8**	**3 293.3**	**4 025.0**	**62.1**	**12.9**	**512.6**
New England Division:														
Rhode Island	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
New Jersey	-	7	6	0.7	10.2	0.6	1.2	7.8	72.4	157.2	230.2	6.6	EE	(D)
East North Central Division:														
Ohio	-	3	3	1.2	20.5	0.7	1.7	12.4	82.7	221.6	306.0	(D)	1.2	53.7
Indiana	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Illinois	-	13	11	2.0	30.6	1.5	3.2	20.6	94.6	599.3	704.4	11.8	1.9	90.8
Michigan	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Division:														
Missouri	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
Maryland	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Georgia	-	4	4	0.5	7.4	0.4	0.8	5.2	25.5	140.7	171.6	4.6	0.5	14.8
East South Central Division:														
Kentucky	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Tennessee	-	3	3	0.9	13.1	0.6	1.3	8.2	25.2	311.3	353.0	4.5	CC	(D)
Alabama	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West South Central Division:														
Louisiana	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Texas	-	8	7	1.4	19.4	1.1	2.3	14.5	85.3	326.1	408.9	4.6	1.3	45.8
Pacific Division:														
Oregon	-	3	3	0.2	2.7	0.1	0.3	1.3	5.6	96.3	104.0	(D)	(NA)	(NA)
California	-	24	14	1.6	25.1	1.1	2.2	16.0	98.9	562.3	661.2	8.4	EE	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Cottonseed oil mills (SIC 2074)	Soybean oil mills (SIC 2075)	Vegetables oil mills, n.e.c. (SIC 2076)	Animal and marine fats and oils (SIC 2077)	Shortening and cooking oils (SIC 2079)
Primary product specialization ratio[1]	percent	88	87	86	94	89
Coverage ratio[2]	do	89	98	58	68	77
All establishments	number	97	121	42	500	109
With 1 to 19 employees	do	25	34	23	299	29
With 20 to 99 employees	do	59	59	14	181	34
With 100 employees or more	do	12	28	5	20	46
All employees, average for year	1,000	5.2	9.4	1.5	12.4	12.7
Payroll for year, all employees	mil. dol.	51.5	130.7	17.6	171.2	190.5
Production workers:						
Average for year	1,000	4.1	6.6	1.1	8.7	9.0
March	do	4.4	6.5	1.1	8.4	9.0
May	do	3.7	6.5	1.1	8.6	9.1
August	do	3.4	6.5	1.0	9.0	9.0
November	do	5.1	7.1	1.3	9.0	9.0
Hours	millions	9.3	14.7	2.5	19.2	18.7
January to March	do	2.5	3.5	0.6	4.6	4.8
April to June	do	2.1	3.5	0.6	4.4	4.7
July to September	do	1.9	3.7	0.6	5.0	4.5
October to December	do	2.9	3.9	0.7	5.1	4.8
Wages	mil. dol.	35.9	87.8	12.2	103.8	125.8
Cost of materials, etc.	do	670.8	7 012.8	304.7	1 086.7	3 293.3
Materials, parts, containers, etc., consumed	do	580.8	6 238.2	220.4	905.4	2 935.5
Resales	do	66.9	665.2	76.1	103.7	293.0
Fuels consumed	do	8.3	74.7	3.5	53.6	46.9
Purchased electric energy	do	14.4	32.5	2.7	21.4	15.5
Contract work	do	0.3	2.2	2.1	2.7	2.4
Value of shipments, including resales	do	859.2	7 580.0	360.8	1 655.0	4 025.0
Value of resales	do	87.1	728.8	86.9	111.8	172.4
Value added by manufacture	do	197.4	377.9	58.4	583.8	691.8
Manufacturers' inventories:						
Beginning of year	do	249.6	1 201.8	83.1	54.0	380.1
Finished products	do	49.9	369.8	35.2	43.1	92.2
Work in process	do	16.9	176.7	8.9	0.7	182.8
Materials, supplies, fuel, etc.	do	182.9	655.3	39.0	10.2	105.1
End of year	do	195.4	804.9	89.3	70.2	324.3
Finished products	do	46.2	229.3	35.3	58.1	89.3
Work in process	do	29.6	127.8	11.1	1.2	145.8
Materials, supplies, fuel, etc.	do	119.6	447.8	42.9	10.9	89.2
Capital expenditures for plant and equipment	do	13.4	74.7	7.5	58.9	74.5
New capital expenditures	do	13.0	72.3	7.4	53.3	62.1
New buildings and other structures	do	2.9	14.1	2.1	8.9	9.2
New machinery and equipment	do	10.0	58.2	5.3	44.3	53.0
Used capital expenditures	do	0.4	2.4	0.1	5.6	12.4

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Cottonseed oil mills (SIC 2074)		Soybean oil mills (SIC 2075)		Vegetable oil mills, n.e.c. (SIC 2076)		Animal and marine fats and oils (SIC 2077)		Shortening and cooking oils (SIC 2079)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:										
Cost of purchased services for repair of--										
Buildings and other structures	(0.3)	73	11.7	1	1.0	1	(2.7)	48	2.8	10
Response coverage ratio[2] (percent)	64.8	(X)	66.7	(X)	67.6	(X)	66.6	(X)	69.9	(X)
Machinery	(4.7)	25	23.0	2	2.4	1	(18.8)	51	(16.0)	18
Response coverage ratio[2] (percent)	60.0	(X)	62.1	(X)	60.9	(X)	66.5	(X)	65.6	(X)
Cost of purchased communication services	(0.6)	18	14.1	2	0.3	1	(2.0)	34	3.0	9
Response coverage ratio[2] (percent)	67.7	(X)	64.9	(X)	66.7	(X)	60.3	(X)	65.4	(X)
Rental payments	0.3	4	6.7	2	0.4	1	(6.4)	22	8.2	4
Buildings and other structures	0.1	1	2.5	3	0.2	1	(1.6)	24	2.1	5
Machinery and equipment	0.2	6	4.2	2	0.2	1	(4.8)	29	6.1	3
Supplemental labor costs	12.0	4	27.2	1	2.9	1	27.7	5	39.7	1
Legal costs	7.2	6	11.5	1	1.4	1	14.6	4	14.9	1
Voluntary costs	4.8	5	15.8	1	1.5	1	13.1	7	24.8	1
Gross value of depreciable assets:										
Buildings and other structures:										
Beginning of year	59.0	9	202.0	1	15.8	1	90.8	9	139.7	2
New capital expenditures	(4.4)	32	14.2	3	1.8	1	(7.7)	23	9.3	4
Used capital expenditures	-	(X)	1.8	1	-	(X)	(1.6)	15	2.6	7
Retirements	(3.5)	39	0.9	4	0.9	1	(5.9)	29	(0.5)	74
End of year	60.0	9	217.1	1	16.8	1	94.2	8	151.1	2
Machinery and equipment:										
Beginning of year	140.8	5	625.5	1	31.2	1	314.9	6	429.5	1
New capital expenditures	9.9	9	58.5	2	4.3	1	(48.2)	17	52.4	1
Automobiles, trucks, etc., for highway use[3]	(0.6)	(A)	(0.2)	(A)	(0.1)	(A)	(8.6)	(A)	(2.2)	(A)
Computers and peripheral data processing equipment[3]	(Z)	(A)	(0.1)	(A)	-	(X)	-	(X)	(0.2)	(A)
All other[3]	(8.1)	(A)	(55.1)	37	(3.9)	(A)	(25.9)	77	(43.1)	46
New machinery and equipment, n.s.k.[4]	(1.1)	(A)	(3.0)	(A)	(0.4)	(A)	(13.7)	(A)	(6.9)	(A)
Used capital expenditures	0.3	1	0.5	7	0.1	1	(3.0)	27	10.0	1
Retirements	(4.7)	25	8.2	2	1.7	1	(22.9)	19	10.5	6
End of year	146.2	5	676.3	1	34.0	1	343.3	6	481.4	1
Total gross value of depreciable assets:										
Beginning of year	199.7	6	827.6	1	47.0	1	405.7	6	569.1	1
New capital expenditures	14.3	13	72.6	2	6.1	1	(55.9)	17	61.7	1
Used capital expenditures	0.4	1	2.3	2	0.1	1	(4.5)	21	12.6	2
Retirements	(8.2)	30	9.1	2	2.5	1	(28.7)	20	10.9	4
End of year	206.2	6	893.4	1	50.7	1	437.4	6	632.5	1
Depreciation charges during 1977	11.1	11	50.6	1	2.8	1	33.1	10	28.2	2
Buildings and other structures	(3.0)	28	9.9	1	0.7	1	4.7	8	4.5	2
Machinery and equipment	8.0	7	40.7	1	2.1	1	28.3	11	23.7	2

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2074, COTTONSEED OIL MILLS												
Total	-	97	5.2	51.5	4.1	9.3	35.9	197.4	670.8	859.2	13.0	195.4
Establishments with an average of—												
1 to 4 employees	E1	19	(0.1)	(1.0)	(0.1)	(0.2)	(0.6)	(3.9)	(38.1)	(43.5)	(0.2)	(7.0)
5 to 9 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E1	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	-	31	1.1	9.4	0.9	2.1	6.7	31.4	106.1	138.1	2.2	33.9
50 to 99 employees	-	28	1.9	17.8	1.6	3.7	13.0	56.2	228.0	282.9	4.5	77.0
100 to 249 employees	-	11	(2.0)	(23.3)	(1.6)	(3.3)	(15.6)	(105.9)	(298.7)	(394.7)	(6.1)	(77.5)
250 to 499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	19	0.1	0.6	0.1	0.1	0.4	1.6	6.8	8.4	0.2	3.4
INDUSTRY 2075, SOYBEAN OIL MILLS												
Total	-	121	9.4	130.7	5.5	14.7	87.8	377.9	7 012.8	7 580.0	72.3	804.9
Establishments with an average of—												
1 to 4 employees	E6	21	(Z)	0.2	(Z)	0.1	0.2	(S)	11.7	12.5	0.2	2.1
5 to 9 employees	E9	5	(Z)	0.4	(Z)	0.1	0.3	(S)	13.3	14.1	0.2	2.4
10 to 19 employees	E1	8	0.1	1.3	0.1	0.2	0.7	1.4	40.1	40.0	1.9	5.1
20 to 49 employees	-	22	0.8	10.8	0.6	1.4	7.8	46.3	771.1	839.3	3.4	51.4
50 to 99 employees	-	37	2.6	36.2	1.8	3.9	23.4	67.5	3 008.4	3 217.2	20.3	293.9
100 to 249 employees	-	21	3.3	43.7	2.3	5.2	29.0	196.0	1 817.0	2 027.6	22.7	283.7
250 to 499 employees	-	6	(2.5)	(37.9)	(1.8)	(3.9)	(26.4)	(66.1)	(1 351.2)	(1 429.4)	(23.7)	(166.3)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	15	(Z)	0.4	(Z)	0.1	0.3	0.6	9.5	10.1	0.1	1.7
INDUSTRY 2076, VEGETABLE OIL MILLS, N.E.C.												
Total	-	42	1.5	17.6	1.1	2.5	12.2	58.4	304.7	360.8	7.4	89.3
Establishments with an average of—												
1 to 4 employees	E6	14	(Z)	(0.4)	(Z)	(0.1)	(0.3)	(Z)	(6.5)	(7.3)	(D)	(1.5)
5 to 9 employees	E6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E5	7	0.1	1.0	0.1	0.2	0.7	4.6	15.3	18.8	0.7	5.3
20 to 49 employees	-	7	0.2	2.7	0.2	0.3	1.7	12.0	36.3	46.2	0.4	12.2
50 to 99 employees	-	7	0.5	6.1	0.4	0.8	4.3	27.4	178.1	202.7	3.6	38.2
100 to 249 employees	-	5	0.7	7.4	0.5	1.1	5.1	14.2	68.5	85.7	(D)	32.2
Covered by administrative records[2]	E0	9	(Z)	0.4	(Z)	0.1	0.3	0.5	4.9	5.4	0.1	1.2
INDUSTRY 2077, ANIMAL AND MARINE FATS AND OILS												
Total	-	500	12.4	171.2	8.7	19.2	103.6	583.8	1 086.7	1 655.0	53.3	70.2
Establishments with an average of—												
1 to 4 employees	E6	120	0.2	2.7	0.2	0.3	1.7	8.0	19.9	28.5	1.5	1.0
5 to 9 employees	E4	72	0.5	5.9	0.4	0.8	3.8	18.3	44.0	62.3	1.3	2.1
10 to 19 employees	-	107	1.5	19.4	1.1	2.4	12.6	59.4	105.2	164.1	6.5	5.2
20 to 49 employees	-	130	4.1	56.5	2.9	6.4	34.2	208.6	379.3	580.4	19.5	25.0
50 to 99 employees	-	51	3.3	46.2	2.3	5.1	28.3	166.1	273.7	435.1	15.0	19.5
100 to 249 employees	-	20	2.7	40.6	1.8	4.1	23.3	123.4	264.5	384.6	9.4	17.5
Covered by administrative records[2]	E0	131	0.5	5.9	0.4	0.7	3.6	17.6	32.9	50.4	1.7	1.9
INDUSTRY 2079, SHORTENING AND COOKING OILS												
Total	-	109	12.7	190.5	9.0	18.7	125.8	691.8	3 293.3	4 025.0	62.1	324.3
Establishments with an average of—												
1 to 4 employees	E4	15	(Z)	0.4	(Z)	0.1	0.3	1.9	5.1	7.0	0.1	0.9
5 to 9 employees	E3	4	(Z)	0.4	(Z)	(Z)	0.3	1.5	6.5	7.9	0.1	0.6
10 to 19 employees	E2	10	0.1	2.1	0.1	0.2	1.4	4.6	37.7	43.7	0.3	3.5
20 to 49 employees	-	15	0.5	7.9	0.3	0.7	4.3	23.5	363.1	387.0	1.4	17.1
50 to 99 employees	-	19	1.3	17.3	0.9	1.9	11.1	68.7	363.5	427.2	10.7	33.7
100 to 249 employees	-	33	5.6	85.8	3.9	8.1	55.8	271.4	1 328.1	1 640.1	33.3	168.3
250 to 499 employees	-	10	3.5	46.7	2.4	5.2	31.0	210.8	807.1	1 017.1	8.3	62.3
500 to 999 employees	-	3	1.6	30.1	1.2	2.5	21.6	109.4	382.3	495.0	8.2	38.0
Covered by administrative records[2]	E0	13	(Z)	0.6	(Z)	0.1	0.4	2.4	9.2	11.5	0.1	1.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2074	**Cottonseed oil mills:**										
	Entire industry	97	5.2	51.5	4.1	9.3	35.9	197.4	670.8	859.2	13.0
	Establishments with 75 percent specialization or more	87	4.2	39.9	3.5	7.9	28.6	165.9	521.9	674.9	9.2
20741	Cottonseed oil, crude:										
	Establishments with this product class primary	6	0.4	3.3	0.3	0.8	2.6	9.2	36.5	44.2	0.5
20742	Cottonseed oil, once-refined:										
	Establishments with this product class primary	11	0.9	9.4	0.7	1.4	6.5	43.9	164.1	209.8	1.4
	Establishments with 75 percent specialization or more in class	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20744	Cottonseed cake, meal, and other byproducts:										
	Establishments with this product class primary	55	3.8	37.3	3.0	6.8	25.8	143.0	459.4	590.7	10.8
2075	**Soybean oil mills:**										
	Entire industry	121	9.4	130.7	6.6	14.7	87.8	377.9	7 012.8	7 580.0	72.3
	Establishments with 75 percent specialization or more	99	6.4	85.3	4.4	9.8	56.5	234.4	5 089.5	5 495.7	47.1
20751	Soybean oil, crude or once-refined:										
	Establishments with this product class primary	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20752	Soybean cake, meal, and other byproducts:										
	Establishments with this product class primary	90	9.1	127.3	6.5	14.3	85.6	362.9	6 834.7	7 371.2	71.1
	Establishments with 75 percent specialization or more in class	14	1.4	19.4	1.1	2.5	14.0	13.5	282.9	313.0	(D)
2076	**Vegetable oil mills, n.e.c.:**										
	Entire industry	42	1.5	17.6	1.1	2.5	12.2	58.4	304.7	360.8	7.4
	Establishments with 75 percent specialization or more	28	0.8	11.3	0.6	1.3	8.0	42.4	233.2	274.2	6.3
20761	Linseed oil (raw, boiled, and processed):										
	Establishments with this product class primary	3	0.2	3.8	0.2	0.3	2.8	20.0	132.8	152.0	(D)
	Establishments with 75 percent specialization or more in class	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20762	Vegetable oils, n.e.c.:										
	Establishments with this product class primary	13	0.7	8.7	0.5	1.2	5.8	23.6	113.1	137.6	2.7
	Establishments with 75 percent specialization or more in class	4	0.2	3.1	0.1	0.3	2.2	7.0	31.2	40.3	(D)
20763	Other vegetable oil cake, meal, and other byproducts:										
	Establishments with this product class primary	6	0.3	3.0	0.2	0.5	2.0	8.1	19.2	25.1	(D)
	Establishments with 75 percent specialization or more in class	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2077	**Animal and marine fats and oils:**										
	Entire industry	500	12.4	171.2	8.7	19.2	103.8	583.8	1 086.7	1 655.0	53.3
	Establishments with 75 percent specialization or more	464	11.2	156.4	7.9	17.4	94.7	530.7	949.3	1 467.7	47.9
20771	Grease and inedible tallow:										
	Establishments with this product class primary	182	6.9	101.1	4.4	9.9	57.1	338.8	681.8	1 015.0	31.4
	Establishments with 75 percent specialization or more in class	49	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20772	Feed and fertilizer byproducts:										
	Establishments with this product class primary	94	2.3	29.7	1.8	4.0	20.1	88.9	185.1	272.4	10.4
	Establishments with 75 percent specialization or more in class	42	0.9	11.2	0.7	1.5	7.5	37.1	83.9	119.9	3.7
20773	Animal and marine oil mill products:										
	Establishments with this product class primary	39	2.1	27.0	1.8	3.7	18.4	113.0	131.2	235.5	7.5
	Establishments with 75 percent specialization or more in class	26	1.5	19.0	1.3	2.7	13.5	69.5	84.8	148.8	5.5
2079	**Shortening and cooking oils:**										
	Entire industry	109	12.7	190.5	9.0	18.7	125.8	691.8	3 293.3	4 025.0	62.1
	Establishments with 75 percent specialization or more	97	11.4	172.5	8.0	16.7	113.8	610.2	3 024.9	3 678.6	58.6
20791	Shortening and cooking oils:										
	Establishments with this product class primary	61	8.6	130.9	6.1	12.8	86.0	453.6	2 479.2	2 970.4	48.2
	Establishments with 75 percent specialization or more in class	44	6.0	97.1	4.1	8.8	62.0	312.5	1 938.4	2 280.0	39.0
20792	Margarine:										
	Establishments with this product class primary	26	4.0	57.3	2.8	5.7	38.4	225.9	528.3	856.2	13.5
	Establishments with 75 percent specialization or more in class	19	2.6	33.8	1.7	3.4	21.0	163.0	441.9	607.4	5.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. **Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967**

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2074	Cottonseed oil mills	1977	859.2	679.7	88.9	90.5	88	763.1	679.7	83.4	89
		1972	458.7	363.4	64.5	30.8	85	410.7	363.2	47.5	88
		1967	405.9	312.2	53.4	40.3	85	365.7	312.2	53.5	85
2075	Soybean oil mills	1977	7,580.0	5,973.3	867.9	738.8	87	6,116.5	5,973.3	143.2	98
		1972	3,357.2	2,558.5	443.4	355.3	85	2,652.1	2,558.3	93.8	96
		1967	2,148.3	1,671.0	277.6	199.7	86	1,740.8	1,671.0	69.8	96
2076	Vegetable oil mills, n.e.c.	1977	360.8	231.6	37.8	91.4	86	401.0	231.6	169.4	58
		1972	261.0	166.3	13.2	81.5	93	263.4	166.3	97.1	63
		1967	236.7	152.9	37.5	46.3	80	205.9	152.9	53.0	74
2077	Animal and marine fats and oils	1977	1,655.0	1,440.8	91.2	123.0	94	2,102.2	1,440.8	661.4	68
		1972	764.7	667.4	44.9	52.4	94	977.1	667.2	309.9	68
		1967	557.9	472.1	31.3	54.5	94	709.4	472.1	237.3	67
2079	Shortening and cooking oils	1977	4,025.0	3,290.9	423.8	310.3	89	4,272.2	3,290.9	981.3	77
		1972	2,068.1	1,774.2	220.3	73.6	89	2,274.5	1,774.2	500.3	78
		1967	1,725.6	1,456.5	220.5	48.6	87	1,690.4	1,456.5	233.9	86

n.e.c. Not elsewhere classified.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2074	**Cottonseed oil mills:**										
	Entire industry	97	5.2	51.5	4.1	9.3	35.9	197.4	670.8	859.2	13.0
	Establishments with 75 percent specialization or more	87	4.2	39.9	3.5	7.9	28.6	165.9	521.9	674.9	9.2
20741	Cottonseed oil, crude:										
	Establishments with this product class primary	6	0.4	3.3	0.3	0.8	2.6	9.2	36.5	44.2	0.5
20742	Cottonseed oil, once-refined:										
	Establishments with this product class primary	11	0.9	9.4	0.7	1.4	6.5	43.9	164.1	209.8	1.4
	Establishments with 75 percent specialization or more in class	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20744	Cottonseed cake, meal, and other byproducts:										
	Establishments with this product class primary	55	3.8	37.3	3.0	6.8	25.6	143.0	459.4	590.7	10.8
2075	**Soybean oil mills:**										
	Entire industry	121	9.4	130.7	6.6	14.7	87.8	377.9	7 012.8	7 580.0	72.3
	Establishments with 75 percent specialization or more	99	6.4	85.3	4.4	9.8	56.5	234.4	5 089.5	5 495.7	47.1
20751	Soybean oil, crude or once-refined:										
	Establishments with this product class primary	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20752	Soybean cake, meal, and other byproducts:										
	Establishments with this product class primary	90	9.1	127.3	6.5	14.3	85.6	362.9	6 834.7	7 371.2	71.1
	Establishments with 75 percent specialization or more in class	14	1.4	19.4	1.1	2.5	14.0	13.5	292.9	313.0	(D)
2076	**Vegetable oil mills, n.e.c.:**										
	Entire industry	42	1.5	17.6	1.1	2.5	12.2	58.4	304.7	360.8	7.4
	Establishments with 75 percent specialization or more	28	0.8	11.3	0.6	1.3	8.0	42.4	233.2	274.2	5.3
20761	Linseed oil (raw, boiled, and processed):										
	Establishments with this product class primary	3	0.2	3.8	0.2	0.3	2.8	20.0	132.8	152.0	(D)
	Establishments with 75 percent specialization or more in class	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20762	Vegetable oils, n.e.c.:										
	Establishments with this product class primary	13	0.7	8.7	0.5	1.2	5.8	23.6	113.1	137.6	2.7
	Establishments with 75 percent specialization or more in class	4	0.2	3.1	0.1	0.3	2.2	7.0	31.2	40.3	(D)
20763	Other vegetable oil cake, meal, and other byproducts:										
	Establishments with this product class primary	6	0.3	3.0	0.2	0.5	2.0	8.1	19.2	25.1	(D)
	Establishments with 75 percent specialization or more in class	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2077	**Animal and marine fats and oils:**										
	Entire industry	500	12.4	171.2	8.7	19.2	103.8	583.8	1 086.7	1 655.0	53.3
	Establishments with 75 percent specialization or more	464	11.2	156.4	7.9	17.4	94.7	530.7	949.3	1 467.7	47.9
20771	Grease and inedible tallow:										
	Establishments with this product class primary	182	6.9	101.1	4.4	9.9	57.1	338.8	681.8	1 015.0	31.4
	Establishments with 75 percent specialization or more in class	49	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20772	Feed and fertilizer byproducts:										
	Establishments with this product class primary	94	2.3	29.7	1.8	4.0	20.1	88.9	185.1	272.4	10.4
	Establishments with 75 percent specialization or more in class	42	0.9	11.2	0.7	1.5	7.5	37.1	83.9	119.9	3.7
20773	Animal and marine oil mill products:										
	Establishments with this product class primary	39	2.1	27.0	1.8	3.7	18.4	113.0	131.2	235.5	7.5
	Establishments with 75 percent specialization or more in class	26	1.5	19.0	1.3	2.7	13.5	69.5	84.8	148.8	5.5
2079	**Shortening and cooking oils:**										
	Entire industry	109	12.7	190.5	9.0	18.7	125.8	691.8	3 293.3	4 025.0	62.1
	Establishments with 75 percent specialization or more	97	11.4	172.5	8.0	16.7	113.8	610.2	3 024.9	3 678.6	58.6
20791	Shortening and cooking oils:										
	Establishments with this product class primary	61	8.6	130.9	6.1	12.8	86.0	453.6	2 479.2	2 970.4	48.2
	Establishments with 75 percent specialization or more in class	44	6.0	97.1	4.1	8.8	62.0	312.5	1 938.4	2 280.0	39.0
20792	Margarine:										
	Establishments with this product class primary	26	4.0	57.3	2.8	5.7	38.4	225.9	628.3	856.2	13.5
	Establishments with 75 percent specialization or more in class	19	2.6	33.8	1.7	3.4	21.0	163.0	441.9	607.4	5.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. **Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967**

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2074	Cottonseed oil mills.....1977..	859.2	679.7	88.9	90.5	88	763.1	679.7	83.4	89
	1972..	458.7	363.4	64.5	30.8	85	410.7	363.2	47.5	88
	1967..	405.9	312.2	53.4	40.3	85	365.7	312.2	53.5	85
2075	Soybean oil mills.....1977..	7,580.0	5,973.3	867.9	738.8	87	6,116.5	5,973.3	143.2	98
	1972..	3,357.2	2,558.5	443.4	355.3	85	2,652.1	2,558.3	93.8	96
	1967..	2,148.3	1,671.0	277.6	199.7	86	1,740.8	1,671.0	69.8	96
2076	Vegetable oil mills, n.e.c.....1977..	360.8	231.6	37.8	91.4	86	401.0	231.6	169.4	58
	1972..	261.0	166.3	13.2	81.5	93	263.4	166.3	97.1	63
	1967..	236.7	152.9	37.5	46.3	80	205.9	152.9	53.0	74
2077	Animal and marine fats and oils.....1977..	1,655.0	1,440.8	91.2	123.0	94	2,102.2	1,440.8	661.4	68
	1972..	764.7	667.4	44.9	52.4	94	977.1	667.2	309.9	68
	1967..	557.9	472.1	31.3	54.5	94	709.4	472.1	237.3	67
2079	Shortening and cooking oils.....1977..	4,025.0	3,290.9	423.8	310.3	89	4,272.2	3,290.9	981.3	77
	1972..	2,068.1	1,774.2	220.3	73.6	89	2,274.5	1,774.2	500.3	78
	1967..	1,725.6	1,456.5	220.5	48.6	87	1,690.4	1,456.5	233.9	86

n.e.c. Not elsewhere classified.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Cottonseed oil mills (SIC 2074)	Soybean oil mills (SIC 2075)	Vegetable oil mills, n.e.c. (SIC 2076)	Animal and marine fats and oils (SIC 2077)	Shortening and cooking oils (SIC 2079)	Other industries
	Total	(X)	859.2	7,580.0	360.8	1,655.0	4,025.0	(X)
	Primary products	(X)	679.7	5,973.3	231.6	1,440.8	3,290.9	(X)
	Secondary products	(X)	88.9	867.9	37.8	91.2	423.8	(X)
	Miscellaneous receipts	(X)	90.5	738.8	91.4	123.0	310.3	(X)
2074-	Cottonseed oil mill products	763.1	679.7	(D)	9.2	-	47.7	(D)
20741	Cottonseed oil, crude	146.6	131.7	(D)	(D)	-	(D)	(D)
20742	Cottonseed oil, once-refined	236.5	187.1	(D)	-	-	(D)	-
20743	Cotton linters	43.4	(D)	(D)	(D)	-	-	-
20744	Cottonseed cake, meal, and other byproducts	323.9	307.8	(D)	(D)	-	-	-
20740	Cottonseed oil mill products, n.s.k.	12.6	(D)	-	-	-	-	(D)
2075-	Soybean oil mill products	6,116.5	31.9	5,973.3	(D)	(D)	48.3	52.1
20751	Soybean oil, crude or once-refined	2,070.1	11.6	1,989.8	(D)	(D)	(D)	(D)
20752	Soybean cake, meal, and other byproducts	4,016.7	20.3	3,957.8	1.1	-	(D)	(D)
20750	Soybean oil mill products, n.s.k.	29.7	-	25.6	-	-	-	4.1
2076-	Vegetable oil mill products, n.e.c.	401.0	20.4	(D)	231.6	(D)	66.1	57.4
20761	Linseed oil (raw, boiled, and processed)	72.5	-	(D)	61.9	(D)	-	(D)
20762	Vegetable oils, n.e.c.	210.8	14.6	(D)	85.3	(D)	61.3	(D)
20763	Other vegetable oil, cake, meal, and other byproducts.	86.9	5.8	(D)	54.1	-	(D)	(D)
20760	Vegetable oil mill products, n.e.c., n.s.k.	30.8	-	-	30.4	-	(D)	(D)
2077-	Animal and marine fats and oils	2,102.2	(D)	3.1	(D)	1,440.8	35.8	620.8
20771	Grease and inedible tallow	989.4	-	-	-	671.8	(D)	(D)
20772	Feed and fertilizer byproducts	753.9	-	-	-	479.7	(D)	(D)
20773	Animal and marine oil mill products	250.4	(D)	3.1	(D)	181.3	34.7	29.7
20770	Animal and marine fats and oils, n.s.k.	108.4	-	-	-	108.0	(D)	(D)
2079-	Shortening and cooking oils	4,272.2	(D)	620.2	13.9	(D)	3,290.9	320.2
20791	Shortening and cooking oils	3,166.3	(D)	(D)	13.9	(D)	2,424.0	97.6
20792	Margarine	1,070.4	-	(D)	-	-	831.5	(D)
20790	Shortening and cooking oils, n.s.k.	35.6	-	(D)	-	-	35.4	(D)
	Other shipments by 4-digit product group:							
2011-	Meat packing plant products	(X)	-	-	-	39.5	(D)	(X)
2022-	Cheese, natural and processed	(X)	-	-	-	(D)	(D)	(X)
2033-	Canned fruits and vegetables	(X)	-	-	-	-	(D)	(X)
2035-	Pickles, sauces, and salad dressings	(X)	-	(D)	-	-	79.1	(X)
2041-	Flour and other grain mill products	(X)	-	(D)	-	-	-	(X)
2045-	Blended and prepared flour	(X)	-	-	-	-	(D)	(X)
2046-	Wet corn milling products	(X)	(D)	(D)	-	-	(D)	(X)
2047-	Dog, cat, and other pet food	(X)	-	(D)	-	(D)	-	(X)
2048-	Prepared feeds, n.e.c.	(X)	(D)	(D)	(D)	(D)	-	(X)
2086-	Bottled and canned soft drinks	(X)	-	-	-	-	(D)	(X)
2091-	Canned and cured seafoods	(X)	-	-	-	(D)	-	(X)
2099-	Food preparations, n.e.c.	(X)	-	(D)	-	(D)	79.0	(X)
2819-	Industrial inorganic chemicals, n.e.c.	(X)	-	-	(D)	-	(D)	(X)
2841-	Soap and other detergents	(X)	-	-	-	(D)	(D)	(X)
2843-	Surface active agents	(X)	-	-	(D)	-	-	(X)
2899-	Chemical preparations, n.e.c.	(X)	-	-	-	(D)	(D)	(X)
2992-	Lubricating oils and greases	(X)	-	-	(D)	-	-	(X)
	Miscellaneous receipts:							
93000 00	Contract work	(X)	(D)	(D)	(D)	2.1	5.0	(X)
99980 98	Other miscellaneous receipts	(X)	(D)	(D)	(D)	9.0	.2	(X)
99989 00	Resales	(X)	87.1	728.8	86.9	111.8	305.1	(X)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2075-	2048 Prepared feeds, n.e.c.	(D)
2076-	2065 Confectionery products	44.9
	2844 Toilet preparations	(D)
2077-	2011 Meat packing plants	545.3
	2016 Poultry dressing plants	29.6

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products--Con.	
2077-	2048 Prepared feeds, n.e.c.	(D)
	2091 Canned and cured seafoods	17.5
	2899 Chemical preparations, n.e.c.	(D)
2079-	2011 Meat packing plants	25.5
	2035 Pickles, sauces, and salad dressings	(D)
	2099 Food preparations, n.e.c.	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977				1972		
			Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Product shipments[1]		Quantity of production for all purposes	Product shipments	
					Quantity[2]	Value (million dollars)		Quantity	Value (million dollars)
	COTTONSEED OIL MILLS[3]								
2074- --	Total	...	(NA)	(X)	(X)	763.1	(X)	(X)	410.7
20741 --	Cottonseed oil, crude:								
20741 11	Cottonseed oil, crude	Million lb.	38	1,276.5	644.1	146.6	1,292.6	1,021.9	125.9
20742 --	Cottonseed oil, once refined:								
20742 11	Cottonseed oil, once refined		21	1,155.7	893.6	236.5	1,140.6	504.5	73.4
20743 --	Cotton linters:								
20743 00	Cotton linters	Million lb.	41	669.5	665.1	43.4	726.0	718.5	29.2
20744 --	Cottonseed cake, meal, and other byproducts	...	(NA)	(X)	(X)	323.9	(X)	(X)	175.0
20744 14	Cottonseed cake and meal	1,000 s. tons.	45	1,735.9	1,698.5	279.2	1,925.1	1,893.9	151.8
20744 51	Hulls	1,000 s. tons.	41	997.7	1,027.2	34.6	1,027.8	1,034.5	22.1
20744 98	Other cottonseed byproducts	...	6	187.5	189.6	9.5	52.1	54.5	1.1
20744 00	Cottonseed cake, meal, and other byproducts, n.s.k.	...	(NA)	(X)	(X)	.7	(X)	(X)	-
20740 00	Cottonseed oil mills, n.s.k., typically for establishments with 20 employees or more (see note)	...	(NA)	(X)	(X)	4.2	(X)	(X)	4.2
20740 02	Cottonseed oil mills, n.s.k., typically for establishments with less than 20 employees (see note)	...	(NA)	(X)	(X)	8.4	(X)	(X)	3.0
	SOYBEAN OIL MILLS[3]								
2075- --	Total	...	(NA)	(X)	(X)	6,116.5	(X)	(X)	2,652.1
20751 --	Soybean oil	Million lb.	(NA)	(X)	(X)	2,070.1	14,453.3	6,814.2	802.2
	Crude		(NA)	8,847.6	7,620.3	1,816.6	7,998.0	6,050.0	704.0
20751 13	Degummed		27	4,918.2	4,267.3	1,015.9	5,130.7	3,990.6	470.2
20751 15	Not degummed		21	3,929.4	3,353.0	800.7	2,867.3	2,059.4	233.8
20751 21	Once refined[4]		13	7,513.9	835.8	209.5	6,455.3	764.2	98.2
20751 31	Processed for inedible purposes[5]	Million lb.	5	150.6	160.3	43.6			
20751 00	Soybean oil, n.s.k.	...	(NA)	(X)	(X)	.4	(X)	(X)	-
20752 --	Soybean cake, meal, and other byproducts	...	(NA)	(X)	(X)	4,016.7	(X)	(X)	1,844.1
20752 11	Meal	1,000 s. tons.	40	18,232.7	18,036.3	3,737.6	16,869.5	17,107.1	1,732.8
20752 31	Soy flour and grits	Million lb.	8	907.5	807.8	128.1	473.7	454.2	53.7
20752 51	Lecithin	Million lb.	9	49.1	67.9	18.1	66.5	69.1	9.5
20752 61	Millfeed (hull meal)	1,000 s. tons.	18	642.7	585.7	41.9	507.9	464.1	19.0
20752 98	Other soybean byproducts, including isolates	Million lb.	10	215.3	218.6	91.0	200.3	199.2	29.1
20752 32	Concentrates	Million lb.							
20750 00	Soybean oil mills, n.s.k., typically for establishments with 5 employees or more (see note)	...	(NA)	(X)	(X)	19.6	(X)	(X)	2.2
20750 02	Soybean oil mills, n.s.k., typically for establishments with less than 5 employees (see note)	...	(NA)	(X)	(X)	10.1	(X)	(X)	3.6
	VEGETABLE OIL MILLS, N.E.C.[3]								
2076- --	Total	...	(NA)	(X)	(X)	401.0	(NA)	(NA)	263.4
20761 --	Linseed oil	Million lb.	(NA)	(X)	(X)	72.5	(NA)	501.7	44.4
20761 13	Raw and boiled		4	222.9	61.4	15.1	482.8	341.3	29.1
20761 33	Processed (refined, blown, heat treated, or chemically modified)	Million lb.	7	249.2	197.4	57.0	(6)	160.4	15.3
20761 00	Linseed oil, n.s.k.		(NA)	(X)	(X)	.4	(X)	(X)	-
20762 --	Vegetable oils, other than corn, cottonseed, soybean, and linseed	...	(NA)	(X)	(X)	210.8	(NA)	1,025.7	157.4
20762 23	Coconut oil, once-refined	Million lb.	6	(S)	71.4	23.1	646.5	168.4	21.2
	Peanut oil:								
20762 52	Crude		15	245.4	224.9	60.2	210.6	164.6	26.6
20762 57	Once-refined[4]	Million lb.	3	250.4	(D)	(D)	166.6	(D)	(D)

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977				1972		
			Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Product shipments[1] Quantity[2]	Product shipments[1] Value (million dollars)	Quantity of production for all purposes	Product shipments Quantity	Product shipments Value (million dollars)
	VEGETABLE OIL MILLS, N.E.C.[3]--Con.								
	Vegetable oils, other than corn, cottonseed, soybean, and linseed--Con.								
	Other vegetable oils, including safflower, castor, tung, etc.:	Million lb....							
20762 61	Crude		12	181.4	(S)	72.0	282.6	228.1	35.9
20762 65	Palm, once-refined		3	239.5	(D)	(D)			
20762 69	Other vegetable oils, once-refined[5]		7	235.2	42.8	15.0	417.8	140.5	21.0
20762 73	Processed for inedible purposes (tung, dehydrated castor oil, etc.)	Million lb....	1	(D)	(D)	(D)	(D)	(D)	(D)
20762 00	Vegetable oils, other than corn, cottonseed, soybean, and linseed, n.s.k.	.....	(NA)	(X)	(X)	16.9	(NA)	[6]3.9	.6
20763 --	Other vegetable oil mill products, except cottonseed and soybean	.....	(NA)	(X)	(X)	86.9	879.4	910.4	59.2
20763 11	Linseed cake and meal	1,000 s. tons.	3	213.4	207.1	30.5	448.6	483.1	34.1
20763 51	Peanut cake and meal		16	188.8	*197.9	37.4	104.6	104.6	10.1
20763 98	Other oil seed cake and meal	1,000 s. tons.	11	134.1	*161.1	16.7	(D)	(D)	(D)
20763 00	Other vegetable oil mill products, except cottonseed and soybean, n.s.k.		(NA)	(X)	(X)	2.3	(X)	(X)	-
20760 00	Vegetable oil mills, n.e.c., n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	(X)	25.4	(X)	(X)	1.8
20760 02	Vegetable oil mills, n.e.c., n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	(X)	5.4	(X)	(X)	.6

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1] Quantity[2]	Product shipments[1] Value (million dollars)	Product shipments Quantity	Product shipments Value (million dollars)
	ANIMAL AND MARINE FATS AND OILS[3]						
2077- --	Total	.....	(NA)	(X)	2,102.2	(NA)	977.1
20771 --	Grease and inedible tallow[7]	Million lb....	(NA)	5,922.5	989.4	6,012.0	419.4
20771 11	Inedible tallow, including inedible animal stearin		201	4,780.5	808.4		
20771 13	Grease, other than wool grease		89	941.5	146.8	[8]6,012.0	[8]419.4
20771 00	Grease and inedible tallow, n.s.k.	Million lb....	(NA)	[9]200.5	34.2		
20772 --	Feed and fertilizer byproducts[7]	1,000 s. tons.	(NA)	3,468.4	753.9	4,148.3	389.2
20772 11	Meat and bone meal		147	1,849.7	401.4	3,688.3	340.1
20772 12	Dry rendered tankage		71	633.3	129.4		
20772 37	Feather meal		32	171.4	39.3	144.7	16.3
20772 98	Other feed and fertilizer, including dried blood, poultry fat and byproducts, meal and raw products for pet food		96	582.1	133.4	282.3	29.7
20772 00	Feed and fertilizer byproducts, n.s.k.	1,000 s. tons.	(NA)	[9]231.9	50.4	[9]33.0	3.1
20773 --	Animal and marine oil mill products, including foots	.....	(NA)	(X)	250.4	(NA)	121.8
20773 11	Foots, animal, vegetable and fish, and acidulated soap stock	.....	20	(X)	73.7	(X)	35.9
20773 46	Animal oil mill products and all other animal oils, except fatty acids	Million lb....	14	*145.5	38.5	[8]196.0	[8]20.0
	Marine animal oil products:						
20773 61	Fish and marine animal oil	Million lb....	12	214.1	36.0	214.4	20.5
20773 66	Fish scrap and meal	1,000 s. tons.	24	*290.7	92.9	277.1	36.0
20773 79	Other fish and marine animal oil	Million lb....	3	66.8	4.4	178.1	5.3
20773 00	Animal and marine oil mill products, n.s.k.	.....	(NA)	(X)	4.9	(X)	4.1
20770 00	Animal and marine fats and oils, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	58.0	(X)	31.2
20770 02	Animal and marine fats and oils, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	50.4	(X)	15.5

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977				1972		
			Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Product shipments[1]		Quantity of production for all purposes	Product shipments	
					Quantity	Value (million dollars)		Quantity	Value (million dollars)
	SHORTENING AND COOKING OILS[3]								
2079- --	Total		(NA)	(X)	(X)	4,272.2	(X)	(X)	2,274.5
20791 --	Shortening and cooking oils		(NA)	(X)	(X)	3,166.3	(X)	(X)	1,685.8
	Baking or frying fats (shortening)	Million lb	(NA)	4,069.5	4,070.4	1,357.3	4,176.9	4,235.1	774.8
20791 13	100 percent vegetable oil		34	2,965.7	2,940.3	1,040.5	2,892.4	2,961.2	578.0
20791 15	100 percent animal fat or blends of vegetable oil and animal fat		33	1,103.8	1,130.1	316.8	1,284.5	1,273.9	196.8
20791 42	Hydrogenated oils other than baking or frying fat (for confectionery fats, mellorine fats, whipped topping, etc.)		11	309.2	339.4	115.6	1,409.7	1,560.6	[10]240.9
	Salad or cooking oil (fully refined and deodorized, all produced at same plant)		(NA)	4,394.0	4,625.0	1,472.1	4,054.2	3,912.5	655.6
	Soybean cooking or salad oil:								
20791 51	Partially hydrogenated		28	3,258.7	3,278.6	1,034.8	3,079.7	2,906.8	454.0
20791 52	Other		11	227.4	246.6	72.0			
20791 53	Cottonseed cooking or salad oil		19	356.7	312.0	92.7	974.5	1,005.7	201.6
20791 54	Mixtures of vegetable cooking or salad oil		11	364.0	442.8	148.0			
20791 59	All other cooking or salad oil		21	187.2	345.0	157.9			
20791 71	Vegetable oil, winter stearin		4	105.5	34.9	9.4	49.9	39.9	4.7
20791 81	Margarine oil, except corn		7	449.4	460.9	135.2	(X)	(X)	(X)
20791 98	All other fully refined oils		5	119.4	101.8	29.6	(X)	(X)	(X)
20791 00	Shortening and cooking oils, n.s.k.		(NA)	(X)	(X)	13.6	(X)	(X)	9.8
20792 --	Margarine		(NA)	2,532.6	2,552.0	1,070.4	2,373.7	2,371.7	586.3
20792 01	Margarine	Million lb	27	2,532.6	2,552.0	1,070.4	2,373.7	2,371.7	586.3
20790 00	Shortening and cooking oils, n.s.k., typically for establishments with 20 employees or more (see note)		(NA)	(X)	(X)	24.0	(X)	(X)	-
20790 02	Shortening and cooking oils, n.s.k., typically for establishments with less than 20 employees (see note)		(NA)	(X)	(X)	11.5	(X)	(X)	2.4

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N,E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Footnotes continued on next page.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972 — Con.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]The Census Bureau collects and publishes detailed monthly production and other related data for cottonseed oil mill products, soybean oil mill products, vegetable oil mill products, animal and marine fats and oils, and shortening and cooking oils in Current Industrial Reports series M20J, "Fats and Oils--Oilseed Crushings," and/or M20K, "Fats and Oils--Production, Consumption, and Factory and Warehouse Stocks." Because of reporting differences by individual companies, fiscal-year reporting rather than calendar periods, etc., the data shown in this report differ from that published in the current survey. For comparative purposes, the summary figures as published in the monthly current industrial reports series are shown below.

Code	Product	Unit of measure	1977 production as shown in-- Current surveys M20J/M20K	1977 production as shown in-- Census of manufactures
20741 11	Cottonseed oil, crude	Mil. lb.	1,254.6	1,276.5
20742 11	Cottonseed oil, once-refined	↑	1,188.8	1,155.7
20743 00	Cottonseed linters	Mil. lb.	675.7	669.5
20744 14	Cottonseed cake and meal	1,000 s. tons.	1,735.2	1,735.9
20744 51	Cottonseed hulls	1,000 s. tons.	987.4	997.7
20751 --	Soybean oil:			
20751 13	Soybean oil, crude	Mil. lb.	8,836.5	8,847.6
20751 15	Soybean oil, crude	Mil. lb.	8,836.5	8,847.6
20751 21	Soybean oil, once-refined	Mil. lb.	7,789.5	7,513.9
20752 --	Soybean, cake, meal, and other byproducts:			
20752 11	Meal	1,000 s. tons.	18,430.5	18,232.7
20752 51	Lecithin	Mil. lb.	47.4	49.1
20752 61	Millfeed (hull meal)	1,000 s. tons.	648.3	642.7
20761 13	Linseed oil, raw and boiled	Mil. lb.	216.4	222.9
20762 23	Coconut oil, once-refined (after alkali or caustic wash but before deodorizing or use in end products)	↑ ↓	729.4	(S)
20762 52	Peanut oil, crude	Mil. lb.	253.7	245.4
20762 57	Peanut oil, once-refined (after alkali or caustic wash but before deodorizing or use in end products)	Mil. lb.	249.7	250.4
20762 65	Palm oil, once-refined	Mil. lb.	225.7	239.5
20763 11	Linseed cake and meal	1,000 s. tons.	208.3	213.4
20763 51	Peanut products, cake and meal.	1,000 s. tons.	[11]167.9	188.8
20771 --	Grease and inedible tallow	Mil. lb.	6,106.4	5,922.5
20772 --	Feed and fertilizer byproducts.	Short tons.	(S)	3,468.4
20791 --	Shortening and cooking oils:			
	Baking or frying fats (shortening)	Mil. lb.		
20791 13	100 percent vegetable oil	↑	2,873.1	2,965.7
20791 15	100 percent animal fat or blends of vegetable oil and animal fat		*968.0	1,103.8
	Salad or cooking oils (fully refined and deodorized):			
20791 51	Soybean cooking or salad oil.		3,316.6	3,486.1
20791 52	Soybean cooking or salad oil.		3,316.6	3,486.1
20792 01	Margarine	Mil. lb.	2,535.0	2,532.6

[4]Oil treated by alkali or caustic wash. Shipments figures exclude amounts of refined oil which have been further processed at the refining establishment by bleaching, deodorizing, and/or winterizing. Such oils are classified as shortening or cooking oils and are included in Industry 2079, Shortening and Cooking Oils.

[5]Includes acid refined, boiled, blown, heat-treated, or chemically modified oil.

[6]For 1972, data were not collected for production of refined oil from plants making soap, paint, or other inedible products where the refining was an integral part of soap or paint making process.

[7]Edible tallow is included in Industry 2011, Meat Packing Plants.

[8]In 1972, inedible animal stearin (product code 20771 11) was included with product code 20773 46.

[9]Quantity was estimated based on quantity-value relationship of other products in this product class.

[10]Data erroneously includes soybean and corn oil, once-refined, and some margarine oil.

[11]Data for product code 2076351 were not reported in CIR's but were supplied by Department of Agriculture (FDA).

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20741, COTTONSEED OIL, CRUDE		
United States	146.6	125.9
South Atlantic Division:		
Georgia	4.0	4.5
East South Central Division:		
Tennessee	5.3	BB
Alabama	6.4	CC
Mississippi	33.1	28.1
West South Central Division:		
Arkansas	21.6	21.1
Texas	57.0	35.6
20742, COTTONSEED OIL, ONCE REFINED		
United States	236.5	73.4
East South Central Division:		
Tennessee	23.6	15.5
West South Central Division:		
Louisiana	29.6	CC
Texas	76.4	FF
Pacific Division:		
California	65.4	8.0
20743, COTTON LINTERS		
United States	43.4	29.2
East South Central Division:		
Mississippi	6.1	5.8
West South Central Division:		
Arkansas	3.4	3.5
Texas	11.0	6.9
Pacific Division:		
California	11.7	5.5
20744, COTTONSEED CAKE, MEAL, AND OTHER BYPRODUCTS		
United States	323.9	175.0
South Atlantic Division:		
Georgia	7.4	7.1
East South Central Division:		
Alabama	8.4	CC
Mississippi	39.0	29.6
West South Central Division:		
Arkansas	30.5	21.5
Louisiana	12.6	CC
Texas	106.3	53.0
Pacific Division:		
California	62.4	20.8
20751, SOYBEAN OIL, CRUDE OR ONCE-REFINED		
United States	2,070.1	802.2
East North Central Division:		
Indiana	155.1	DD
Illinois	437.3	158.4
West North Central Division:		
Minnesota	152.8	FF
Iowa	399.7	108.3
Missouri	67.1	43.2
Kansas	78.2	38.6
South Atlantic Division:		
South Carolina	24.1	AA
Georgia	92.6	40.3
East South Central Division:		
Tennessee	92.0	63.6
West South Central Division:		
Arkansas	32.6	24.9
20752, SOYBEAN CAKE, MEAL, AND OTHER BYPRODUCTS		
United States	4,016.7	1,844.1
East North Central Division:		
Indiana	232.9	GG
Illinois	896.7	449.4
West North Central Division:		
Minnesota	314.9	108.5
Iowa	666.1	223.4
Missouri	120.1	GG
Kansas	143.6	91.9
South Atlantic Division:		
South Carolina	73.9	EE
Georgia	151.5	GG
East South Central Division:		
Tennessee	253.9	113.6
Mississippi	91.6	74.0
West South Central Division:		
Arkansas	193.4	129.5
Pacific Division:		
California	7.3	4.4
20761, LINSEED OIL (RAW, BOILED, AND PROCESSED)		
United States	72.5	44.4
West North Central Division:		
Minnesota	67.6	FF
20762, VEGETABLE OILS, N.E.C.		
United States	210.8	157.4
Middle Atlantic Division:		
New Jersey	63.8	FF
West South Central Division:		
Texas	9.4	BB
Pacific Division:		
California	25.7	65.9
20763, OTHER VEGETABLE OIL, CAKE, MEAL, AND OTHER BYPRODUCTS		
United States	86.9	59.2
West North Central Division:		
Minnesota	34.4	36.4
East South Central Division:		
Mississippi	6.4	(NA)
West South Central Division:		
Texas	5.2	(NA)
Pacific Division:		
California	8.3	EE
20771, GREASE AND INEDIBLE TALLOW		
United States	989.4	419.4
New England Division:		
Massachusetts	23.6	11.3
Middle Atlantic Division:		
New York	14.2	18.7
Pennsylvania	49.8	21.8
East North Central Division:		
Ohio	44.1	18.8
Indiana	23.6	6.5
Illinois	71.9	37.6
Michigan	35.4	15.9
Wisconsin	32.2	10.1

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** – Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20771, GREASE AND INEDIBLE TALLOW--Con.		
West North Central Division:		
Minnesota	28.3	11.5
Iowa	90.4	31.5
Missouri	15.9	CC
South Dakota	9.3	2.9
Nebraska	43.7	20.0
Kansas	33.7	13.7
South Atlantic Division:		
Maryland	7.8	AA
Virginia	12.6	6.6
Georgia	9.9	6.1
Florida	20.6	8.3
East South Central Division:		
Kentucky	11.0	2.7
Tennessee	8.6	3.6
Alabama	6.7	5.0
Mississippi	5.1	2.6
West South Central Division:		
Arkansas	5.6	7.0
Louisiana	8.6	2.4
Oklahoma	10.3	3.2
Texas	75.9	20.4
Mountain Division:		
Montana	2.9	1.4
Idaho	3.8	2.2
Colorado	38.1	14.6
New Mexico	4.6	2.1
Arizona	7.8	2.7
Pacific Division:		
Washington	25.6	6.0
Oregon	8.1	BB
California	106.8	44.3
20772, FEED AND FERTILIZER BYPRODUCTS		
United States	753.9	389.2
Middle Atlantic Division:		
New York	5.8	7.2
Pennsylvania	44.2	14.2
East North Central Division:		
Ohio	25.4	16.5
Indiana	16.9	CC
Illinois	41.6	27.0
Michigan	16.7	CC
Wisconsin	25.3	10.5
West North Central Division:		
Minnesota	31.2	15.1
Iowa	70.4	29.8
Missouri	10.8	8.2
South Dakota	9.0	BB
Nebraska	31.5	27.4
Kansas	24.6	17.2
South Atlantic Division:		
Virginia	18.4	7.7
North Carolina	36.9	16.9
Florida	11.1	5.0
East South Central Division:		
Tennessee	14.3	15.9
Alabama	15.6	7.8
Mississippi	7.9	3.2

Product class and geographic area	Value of product shipments	
	1977	1972
20772, FEED AND FERTILIZER BYPRODUCTS--Con.		
West South Central Division:		
Arkansas	8.9	8.1
Oklahoma	6.5	3.0
Texas	52.4	17.7
Mountain Division:		
Montana	2.2	AA
Idaho	2.9	2.4
Colorado	18.0	13.1
New Mexico	2.5	1.4
Arizona	5.5	2.7
Pacific Division:		
Washington	15.4	5.7
Oregon	7.8	BB
California	78.1	32.2
20773, ANIMAL AND MARINE OIL MILL PRODUCTS		
United States	250.4	121.8
Middle Atlantic Division:		
New Jersey	21.7	CC
East North Central Division:		
Ohio	4.0	4.9
Illinois	14.1	5.3
South Atlantic Division:		
North Carolina	9.4	5.5
West South Central Division:		
Louisiana	42.2	EE
Texas	10.8	BB
Pacific Division:		
California	22.6	12.3
20791, SHORTENING AND COOKING OILS		
United States	3,166.3	1,685.8
Middle Atlantic Division:		
New Jersey	151.2	79.5
Pennsylvania	15.7	EE
East North Central Division:		
Illinois	705.2	446.8
Wisconsin	8.6	BB
West North Central Division:		
Minnesota	142.2	FF
East South Central Division:		
Tennessee	333.6	GG
Alabama	13.1	BB
West South Central Division:		
Texas	239.2	124.6
Pacific Division:		
California	357.3	192.4
20792, MARGARINE		
United States	1,070.4	586.3
East North Central Division:		
Illinois	169.8	66.3
West South Central Division:		
Texas	121.6	GG
Pacific Division:		
California	151.9	GG

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available. N.E.C. Not elsewhere classified.

Table 6c. Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2074-	Cottonseed oil mill products	763.1	658.0	946.1	905.0	564.9	410.7	365.7	490.7
20741	Cottonseed oil, crude	146.6	192.8	313.4	294.3	145.8	125.9	114.8	174.1
20742	Cottonseed oil, once refined	236.5	133.2	240.5	173.5	102.5	73.4	56.2	65.7
20743	Cotton linters	43.4	34.3	52.7	77.3	39.4	29.2	38.3	37.7
20744	Cottonseed cake, meal, and other byproducts	323.9	276.9	322.3	343.7	270.1	175.0	148.0	208.1
20740	Cottonseed oil mill products, n.s.k.	12.6	20.8	17.2	16.2	7.1	7.2	8.4	5.1
2075-	Soybean oil mill products	6,116.5	5,630.0	5,062.8	6,024.6	4,641.8	2,652.1	1,740.8	1,293.6
20751	Soybean oil, crude or once refined	2,070.1	1,928.3	2,422.9	2,779.4	1,320.1	802.2	594.3	458.9
20752	Soybean cake, meal, and other byproducts	4,016.7	3,674.4	2,611.5	3,233.6	3,315.4	1,844.1	1,143.4	831.4
20750	Soybean oil mill products, n.s.k.	29.7	27.3	28.4	11.6	6.3	5.8	3.1	3.4
2076-	Vegetable oil mill products, n.e.c.	401.0	540.4	518.1	641.7	445.2	263.4	205.9	196.8
20761	Linseed oil, raw, boiled, and processed	72.5	83.8	99.5	140.0	99.0	44.4	48.2	50.2
20762	Vegetable oils, n.e.c.	210.8	372.9	321.8	430.8	274.4	157.4	113.4	105.2
20763	Other vegetable oil, cake, meal, and other byproducts	86.9	77.1	(94.7)	68.7	66.6	59.2	41.8	39.5
20760	Vegetable oil mill products, n.e.c., n.s.k.	30.8	6.6	2.1	2.2	5.2	2.4	2.5	1.9
2077-	Animal and marine fats and oils	2,102.2	1,738.6	1,512.4	1,835.7	1,588.0	977.1	709.4	642.9
20771	Grease and inedible tallow	989.4	936.1	815.0	1,022.0	775.4	419.4	302.6	264.2
20772	Feed and fertilizer byproducts	753.9	666.5	543.6	627.2	614.4	389.2	277.8	246.7
20773	Animal and marine oil mill products	250.4	(157.9)	173.8	173.5	161.3	121.8	96.3	111.3
20770	Animal and marine fats and oils, n.s.k.	108.4	([2])	([2])	(13.0)	36.9	46.7	32.7	20.7
2079-	Shortening and cooking oils	4,272.2	3,591.1	4,248.5	4,308.1	2,648.2	2,274.5	1,690.4	1,230.7
20791	Shortening and cooking oils	3,166.3	2,729.5	3,174.3	3,225.4	1,909.2	1,685.8	1,233.6	907.4
20792	Margarine	1,070.4	841.4	1,062.0	1,063.2	735.7	586.3	456.5	323.2
20790	Shortening and cooking oils, n.s.k.	35.6	(20.2)	(S)	(19.5)	3.3	2.4	.3	(X)

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because the estimate did not meet publication standards. (X) Not applicable.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]Withheld because estimated figure is negative. This is consequence of using difference method of estimation (see Estimating Procedures in appendix B) and of improved establishment reporting that resulted in changing classification of shipments from n.s.k. code for 1972 Census to specified 5-digit product classes for this year. Four-digit total is best estimate, even though smaller than sum of 5-digit values.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2074, COTTONSEED OIL MILLS					
	Materials, ingredients, containers, and supplies	.....	(X)	580.8	(X)	331.5
013111	Cottonseed	1,000 s. tons..	3,718.2	444.9	3,850.0	254.7
011611	Soybeans		(NA)	(2)	257.8	26.8
010015	Other seeds, nuts, and beans, excluding cottonseed, soybean, and flaxseed	1,000 s. tons..	51.6	13.0	73.9	9.7
	Cottonseed oil:					
207411	Crude	Million lb.....	201.4	49.3	(NA)	(3)
207421	Once refined	Million lb.....	-	-	-	-
970099	All other materials, ingredients, containers, and supplies	.....	(X)	[5]62.6	(X)	[3]33.4
971000	Materials, ingredients, containers, and supplies, n.s.k.[4]	.....	(X)	11.0	(X)	6.9
	INDUSTRY 2075, SOYBEAN OIL MILLS					
	Materials, ingredients, containers, and supplies	.....	(X)	6,238.2	(X)	2,687.5
013111	Cottonseed	1,000 s. tons..	147.8	17.6	188.0	12.0
011611	Soybeans	1,000 s. tons..	23,472.0	5,310.9	21,739.9	2,397.1
207511	Soybean oil, crude	Million lb.....	1,666.1	369.2	418.9	48.9
260091	Paper and paperboard containers	.....	(X)	7.4	(X)	3.5
970099	All other materials, ingredients, containers, and supplies	.....	(X)	442.9	(X)	221.8
971000	Materials, ingredients, containers, and supplies, n.s.k.[4]	.....	(X)	90.2	(X)	4.2
	INDUSTRY 2076, VEGETABLE OIL MILLS, N.E.C.					
	Materials, ingredients, containers, and supplies	.....	(X)	220.4	(X)	147.1
013111	Cottonseed	1,000 s. tons..	43.8	5.2	(NA)	(5)
011611	Soybeans		(6)	(6)	(NA)	(5)
013920	Peanuts		135.5	37.2	(NA)	(7)
011911	Flaxseed		(6)	(6)	611.0	49.4
010015	Other seeds, nuts, and beans, excluding cottonseeds, soybean, and peanuts	1,000 s. tons..	76.3	22.4	268.9	[7]29.0
970099	All other materials, ingredients, containers, and supplies	.....	(X)	[6]107.8	(X)	[5]68.4
971000	Materials, ingredients, containers, and supplies, n.s.k.[4]	.....	(X)	47.8	(X)	.3
	INDUSTRY 2077, ANIMAL AND MARINE FATS AND OILS					
	(Materials consumed data are not applicable for this industry)					
	INDUSTRY 2079, SHORTENING AND COOKING OILS					
	Materials, ingredients, containers, and supplies	.....	(X)	2,935.5	(X)	1,461.1
201104	Tallow and stearin, edible	Million lb.....	573.9	115.7	583.5	58.3
	Cottonseed oil:					
207411	Crude		468.3	117.9	646.0	79.1
207421	Once refined		154.5	43.3	129.4	17.9
207915	Fully refined		188.7	55.5	119.8	15.7
	Soybean oil:					
207511	Crude		4,041.3	984.3	3,996.7	471.9
207512	Once refined		430.9	109.6	257.0	32.9
207916	Fully refined		1,217.6	343.8	1,500.5	206.9
	Other oil:					
207601	Crude, excluding cottonseed and soybean		885.6	267.9	1,199.2	153.2
207603	Once refined, excluding cottonseed and soybean		309.6	87.2	145.0	22.2
207917	Fully refined, excluding cottonseed and soybean		396.0	127.1	292.8	52.0
201151	Lard	Million lb.....	317.9	54.5	515.1	54.2
	Containers:					
322101	Glass containers	1,000 gross....	5,274.0	99.4	2,360.0	31.3
340003	Metal containers, excluding drums	.....	(X)	58.6	(X)	38.3
260091	Paper and paperboard containers	.....	(X)	86.1	(X)	46.6
341220	Metal drums	.....	(X)	4.4	(X)	168.8
970099	All other materials, ingredients, containers, and supplies	.....	(X)	250.6		
971000	Materials, ingredients, containers, and supplies, n.s.k.[4]	.....	(X)	129.6	(X)	11.8

- Represents zero. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]For 1977, industry 2074, material code 011611 was included with material code 970099 to avoid disclosing operations of individual companies.

[3]For 1972, industry 2074, material code 207411 was included with material code 970099 to avoid disclosing operations of individual companies.

[4]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[5]For 1972, industry 2076, material codes 013111 and 011611 were combined with material code 970099.

[6]For 1977, industry 2076, material codes 011611 and 011911 were combined with material code 970099.

[7]For 1972, industry 2076, material code 013290 was combined with material code 010015.

Beverages

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DESCRIPTION OF INDUSTRIES

BEVERAGES

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2082	Malt Beverages
2083	Malt
2084	Wines, Brandy, and Brandy Spirits
2085	Distilled Liquor, Except Brandy
2086	Bottled and Canned Soft Drinks
2087	Flavoring Extracts and Sirups, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2082, MALT BEVERAGES

This industry comprises establishments primarily engaged in the manufacture of all kinds of malt beverages. Establishments primarily engaged in bottling purchased malt beverages are classified in industry 5181.

The total value of shipments for establishments classified in the Malt Beverages industry amounted to $6,653 million in 1977, an increase of 64 percent from 1972. The value of shipments of products classified as primary to the industry was $6,613 million, an increase of 64 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were beer in 12 ounce cans, for which shipments increased 73 percent, and beer in nonreturnable 12 ounce bottles, for which shipments increased 118 percent. Value added by manufacture, at $2,602 million in 1977, was 31 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 44.0 thousand employees, a decrease of 15 percent from 1972. The leading States in employment were Wisconsin, Colorado, Missouri, and New Jersey, accounting for approximately 45 percent of the industry's 1977 employment. Data for Colorado and Missouri have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for less than 1 percent of total value of shipments.

INDUSTRY 2083, MALT

This industry comprises establishments primarily engaged in the manufacture of malt or malt byproducts from barley or other grains.

The total value of shipments for establishments classified in the Malt industry amounted to $499 million in 1977, an increase of 121 percent from 1972. The value of shipments of products classified as primary to the industry was $489 million, an increase of 130 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $101 million in 1977, was 84 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 1.6 thousand employees, a decrease of 6 percent from 1972. The leading States in employment were Wisconsin, Minnesota, and Illinois, accounting for approximately 70 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the

time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for less than 1 percent of total value of shipments.

INDUSTRY 2084, WINES, BRANDY, AND BRANDY SPIRITS

This industry comprises establishments primarily engaged in the manufacture of wines, brandy, and brandy spirits. This industry also includes bonded storerooms which are engaged in blending wines. Establishments primarily bottling purchased wines, brandy, and brandy spirits, but which do not manufacture wines and brandy are classified in industry 5182.

The total value of shipments for establishments classified in the Wines, Brandy, and Brandy Spirits industry amounted to $1,363 million in 1977, an increase of 58 percent from 1972. The value of shipments of products classified as primary to the industry was $1,358 million, an increase of 60 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were white, red and rose, 14 percent or less, grape wines, for which shipments increased 110 percent, and other specialty wines, for which shipments increased 478 percent. Value added by manufacture, at $510 million in 1977, was 25 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 9.2 thousand employees, a decrease of 2 percent from 1972. The leading States in employment were California and New York, accounting for approximately 90 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 85 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2085, DISTILLED LIQUOR, EXCEPT BRANDY

This industry comprises establishments primarily engaged in the manufacture of alcoholic liquors by distillation and rectification, and in manufacturing cordials and other cocktails by blending processes or by mixing liquors and other ingredients. Establishments primarily engaged in the manufacture of industrial alochol are classified in industry 2869, and those only bottling purchased liquors in industry 5182.

The total value of production for establishments classified in the Distilled Liquor, Except Brandy industry amounted to $2,296 million in 1977, an increase of 27 percent from 1972. The value of production of products classified as primary to the industry was $1,955 million, an increase of 26 percent from 1972. The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $1,150 million in 1977, was 12 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 15.7 thousand employees, a decrease of 15 percent from 1972. The leading States in employment were Kentucky, Illinois, Indiana, and Maryland, accounting for approximately 60 percent of the industry's 1977 employment. Data for Indiana and Maryland have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

INDUSTRY 2086, BOTTLED AND CANNED SOFT DRINKS

This industry comprises establishments primarily engaged in the manufacture of soft drinks (nonalcoholic beverages) and carbonated waters. Establishments primarily engaged in the manufacture of fruit and vegetable juices are classified in industry group 203, fruit sirups for flavoring in industry 2087, and cider in industry 2099. Establishments primarily engaged in bottling natural spring water are classified in industry 5149.

The total value of shipments for establishments classified in the Bottled and Canned Soft Drinks industry amounted to $10,007 million in 1977, an increase of 83 percent from 1972. The value of shipments of products classified as primary to the industry was $8,504 million, an increase of 77 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were canned nondietetic soft drinks containing cola extract, for which shipments increased 127 percent. Value added by manufacture, at $4,085 million in 1977, was 75 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 114.1 thousand employees, a decrease of 6 percent from 1972. The leading States in employment were Texas, California, Ohio, and New York, accounting for approximately 25 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 25 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the

time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 7 percent of total value of shipments.

INDUSTRY 2087, FLAVORING EXTRACTS AND SIRUPS, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of flavoring extracts, sirups, and fruit juices, not elsewhere classified, for soda fountain use; or for the manufacture of soft drinks; and colors for bakers' and confectioners' use. Establishments primarily engaged in the manufacture of chocolate sirup from cocoa beans are classified in industry 2066, and in industry 2099 if from purchased chocolate.

The total value of shipments for establishments classified in the Flavoring Extracts and Sirups, N.E.C. industry amounted to $2,511 million in 1977, an increase of 71 percent from 1972. The value of shipments of products classified as primary to the industry was $2,621 million, an increase of 80 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $1,453 million in 1977, was 67 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 10.5 thousand employees, an increase of 4 percent from 1972. The leading States in employment were Illinois, New Jersey, California, and New York, accounting for approximately 55 percent of the industry's 1977 employment. Data for California have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided. These same States were in the forefront for 1972 when they accounted for approximately 55 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

Establishments of single-unit companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2082, MALT BEVERAGES																
1977 Census--	81	131	91	44.0	857.5	31.1	61.1	589.1	2 602.3	4 045.1	6 652.6	410.3	(NA)	444.6	100	100
1976 ASM----	(NA)	(NA)	(NA)	42.7	750.6	29.4	59.3	505.3	2 266.3	3 698.6	6 024.5	525.5	3 555.5	393.6	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	47.1	725.9	32.8	64.0	492.7	2 008.2	3 651.8	5 640.8	409.2	3 156.1	428.3	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	50.1	729.7	34.6	69.4	491.2	1 999.2	3 163.4	5 047.3	394.2	2 856.9	461.6	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	49.1	657.5	33.8	67.1	437.0	1 962.9	2 393.2	4 344.6	236.8	2 573.4	260.7	(NA)	(NA)
1972 Census--	108	167	130	51.5	552.8	33.8	66.9	408.7	1 993.6	2 066.5	4 054.4	155.6	2 401.3	205.1	100	100
1971 ASM----	(NA)	(NA)	(NA)	57.0	553.6	37.2	71.6	405.2	2 176.6	1 966.4	4 139.7	160.2	2 337.9	204.3	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	57.3	615.6	38.0	74.3	382.6	2 027.5	1 797.7	3 822.4	177.7	2 251.4	203.0	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	57.3	570.8	38.6	74.2	359.4	1 787.8	1 631.2	3 418.5	249.8	2 084.5	170.8	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	58.7	537.0	39.7	76.5	343.5	1 633.1	1 505.1	3 131.4	193.6	1 898.6	172.5	(NA)	(NA)
1967 Census--	125	185	150	59.6	519.8	40.0	76.8	331.4	1 545.7	1 383.6	2 929.7	140.4	1 734.8	166.5	100	100
1966 ASM----	(NA)	(NA)	(NA)	60.5	509.2	40.3	78.5	334.0	1 412.5	1 288.3	2 699.9	168.8	(NA)	160.1	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	60.4	488.1	40.6	78.7	310.4	1 360.3	1 139.1	2 497.2	115.4	(NA)	162.0	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	61.9	485.6	42.0	80.6	311.4	1 366.2	1 106.5	2 469.8	105.4	1 418.4	153.6	(NA)	(NA)
1963 Census--	171	222	160	62.6	470.8	42.7	81.9	302.3	1 286.0	1 030.7	2 315.1	86.2	1 351.9	153.3	100	100
INDUSTRY 2083, MALT																
1977 Census--	27	40	27	1.6	27.4	1.2	2.5	20.0	101.4	377.7	499.3	39.6	(NA)	134.2	100	100
1976 ASM----	(NA)	(NA)	(NA)	1.6	24.4	1.2	2.4	18.2	87.4	436.4	515.2	17.8	154.1	185.9	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	1.7	23.8	1.3	2.5	17.3	121.6	463.2	591.4	19.4	133.6	165.0	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	1.7	22.3	1.3	2.6	16.6	107.8	397.6	478.9	9.0	111.8	176.2	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	1.5	20.0	1.2	2.4	14.6	72.6	215.6	277.2	2.8	107.2	107.3	(NA)	(NA)
1972 Census--	30	40	26	1.7	20.0	1.3	2.5	14.8	55.0	168.5	226.3	7.9	110.3	80.0	97	99
1971 ASM----	(NA)	(NA)	(NA)	1.8	19.8	1.4	2.9	15.0	60.9	156.2	217.5	4.2	100.7	80.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	1.9	19.4	1.4	3.0	14.7	57.8	154.2	210.1	3.9	96.9	80.2	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	2.1	19.8	1.6	3.3	14.7	57.7	163.8	221.6	6.6	109.6	76.5	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	2.0	18.1	1.5	3.1	13.3	54.0	160.5	216.6	6.3	105.4	77.0	(NA)	(NA)
1967 Census--	32	43	30	2.0	17.1	1.5	3.1	12.7	47.5	168.5	216.5	7.1	100.9	87.9	97	100
1966 ASM----	(NA)	(NA)	(NA)	1.8	15.3	1.4	2.8	11.1	48.5	157.5	205.5	4.1	(NA)	85.6	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	1.9	15.8	1.4	3.0	11.6	50.6	153.0	204.4	4.4	(NA)	82.2	(NA)	(NA)
1964 ASM[6]---	(NA)	(NA)	(NA)	2.1	17.2	1.6	3.3	12.5	58.3	160.2	215.5	4.5	96.8	84.9	(NA)	(NA)
1963 Census--	29	42	31	1.9	15.1	1.5	3.0	10.8	44.0	131.5	183.5	3.0	94.4	78.8	100	95
INDUSTRY 2084, WINES, BRANDY, AND BRANDY SPIRITS																
1977 Census--	233	269	76	9.2	134.1	5.4	10.5	69.6	510.4	893.8	1 362.5	51.1	(NA)	559.5	98	97
1976 ASM----	(NA)	(NA)	(NA)	10.4	132.7	5.8	10.9	67.0	539.4	707.2	1 212.6	41.3	480.2	551.5	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	10.8	131.0	6.3	11.8	66.3	500.0	685.0	1 197.0	48.1	470.7	543.7	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	10.2	117.1	6.0	12.2	58.5	771.6	672.5	1 366.3	55.6	397.5	545.9	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	9.8	96.6	6.5	12.5	49.0	446.6	508.0	986.3	44.7	338.5	449.5	(NA)	(NA)
1972 Census--	183	213	74	9.4	91.5	5.6	11.8	48.1	407.9	536.7	865.0	43.7	255.9	378.3	98	96
1971 ASM----	(NA)	(NA)	(NA)	10.3	85.6	6.3	11.7	42.4	376.7	434.7	747.3	40.4	246.7	309.2	(NA)	(NA)
1970 ASM[6]---	(NA)	(NA)	(NA)	8.6	70.9	5.4	10.9	36.7	258.3	336.7	590.9	36.2	212.1	229.1	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	7.0	56.4	4.5	8.9	30.5	245.4	285.7	492.8	15.8	173.7	195.7	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	6.7	50.1	4.2	8.5	26.8	197.8	251.0	445.7	14.0	165.2	158.8	(NA)	(NA)
1967 Census--	175	205	68	6.8	47.3	4.3	8.6	25.1	196.8	235.8	410.2	10.3	154.7	162.3	97	94
1966 ASM----	(NA)	(NA)	(NA)	6.5	44.5	4.2	8.5	23.8	193.4	223.6	400.8	11.8	(NA)	159.2	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	6.4	41.8	4.2	8.5	23.2	166.7	263.4	396.2	11.3	(NA)	144.3	(NA)	(NA)
1964 ASM[6]---	(NA)	(NA)	(NA)	6.4	39.9	4.5	8.9	23.2	159.1	243.5	385.1	11.8	133.3	142.2	(NA)	(NA)
1963 Census--	194	222	70	6.1	35.1	4.2	8.4	20.5	137.3	228.7	368.3	7.3	118.9	120.0	98	99
INDUSTRY 2085, DISTILLED LIQUOR, EXCEPT BRANDY																
1977 Census--	84	104	77	15.7	232.1	12.0	23.8	168.1	[9]1 149.7	1 163.0	[9]2 296.1	36.3	(NA)	1 027.9	98	98
1976 ASM----	(NA)	(NA)	(NA)	15.9	210.6	11.9	24.0	151.4	[9]1 100.9	1 013.1	[9]2 115.1	29.4	575.8	1 018.8	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	16.3	198.0	12.3	24.5	141.7	[9]1 055.8	948.0	[9]2 003.5	30.3	553.8	1 051.1	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	16.7	188.2	12.6	25.0	135.2	[9]989.0	876.9	[9]1 863.8	21.7	523.5	1 016.9	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	17.4	186.6	13.3	27.0	136.2	[9]985.5	831.0	[9]1 816.6	26.9	535.5	923.9	(NA)	(NA)
1972 Census--	76	121	86	18.4	183.1	14.5	28.6	132.5	[9]1 024.0	784.8	[9]1 797.9	32.8	515.4	920.7	98	99
1971 ASM----	(NA)	(NA)	(NA)	19.2	177.8	15.1	29.7	129.8	[9]959.4	889.6	[9]1 847.5	28.6	498.4	977.7	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	20.5	171.0	16.3	31.4	125.6	[9]886.9	868.6	[9]1 757.5	28.9	479.6	968.6	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	20.5	164.3	16.4	33.2	120.1	[9]925.6	754.9	[9]1 668.7	38.6	476.0	880.8	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	20.0	152.4	15.9	32.3	110.9	[9]844.0	682.8	[9]1 515.1	44.0	422.9	845.7	(NA)	(NA)
1967 Census--	70	112	95	19.4	141.6	15.6	31.9	104.0	[9]736.7	639.3	[9]1 364.2	27.0	389.4	791.2	98	98
1966 ASM----	(NA)	(NA)	(NA)	19.0	130.0	15.2	30.1	94.5	[9]723.1	610.7	[9]1 331.6	32.2	(NA)	747.9	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	18.9	125.7	14.9	29.7	91.4	[9]712.7	577.8	[9]1 288.2	23.4	(NA)	712.5	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	17.8	115.6	14.2	28.0	84.1	[9]660.2	474.7	[9]1 133.8	13.5	343.4	707.1	(NA)	(NA)
1963 Census--	70	107	89	18.0	110.2	14.3	28.1	80.2	[9]623.7	466.9	[9]1 090.5	15.5	332.7	682.0	98	99

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2086, BOTTLED AND CANNED SOFT DRINKS																
1977 Census--	1 757	2 192	1 286	114.1	1 448.8	43.4	89.3	444.8	4 084.5	5 958.6	10 007.2	423.6	(NA)	551.7	98	97
1976 ASM----	(NA)	(NA)	(NA)	121.8	1 363.6	44.5	89.9	406.8	3 555.5	5 238.9	8 780.1	325.2	2 482.9	459.7	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	116.7	1 209.6	42.6	84.2	359.3	3 321.1	5 272.1	8 601.6	219.2	2 334.2	447.1	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	113.7	1 056.2	40.7	80.7	310.3	2 592.7	4 177.6	6 713.2	195.3	2 064.4	419.1	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	117.0	1 025.3	44.8	89.8	310.5	2 332.7	3 358.9	5 671.0	237.7	2 080.7	320.0	(NA)	(NA)
1972 Census--	2 273	2 687	1 556	121.1	984.4	45.6	91.9	297.5	2 336.7	3 128.8	5 453.8	207.1	1 850.0	281.0	98	97
1971 ASM----	(NA)	(NA)	(NA)	121.1	959.4	45.9	94.2	282.0	2 222.6	2 832.9	5 046.9	168.0	1 741.2	271.7	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	128.8	915.9	49.6	103.9	279.5	2 121.2	2 515.0	4 631.1	185.1	1 634.3	258.9	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	128.5	833.5	49.3	97.8	257.4	1 942.2	2 131.1	4 063.9	154.8	1 609.8	222.0	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	124.1	767.4	47.7	96.5	234.1	1 801.2	1 759.2	3 553.5	139.9	1 491.6	201.1	(NA)	(NA)
1967 Census--	3 057	3 400	1 691	123.3	726.7	46.6	95.3	219.3	1 679.4	1 506.0	3 173.2	168.1	1 391.2	186.8	98	96
1966 ASM----	(NA)	(NA)	(NA)	117.7	667.1	43.7	93.8	201.1	1 470.8	1 273.3	2 734.9	151.1	(NA)	144.3	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	113.9	614.4	42.1	90.1	182.7	1 372.7	1 137.3	2 505.4	111.0	(NA)	127.4	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	111.1	582.6	41.0	89.2	172.8	1 387.8	1 027.8	2 408.8	110.8	1 175.8	128.5	(NA)	(NA)
1963 Census--	3 569	3 905	1 530	106.8	537.7	40.9	86.9	164.7	1 233.6	981.5	2 210.9	100.8	1 103.8	125.0	98	95
INDUSTRY 2087, FLAVORING EXTRACTS AND SIRUPS, N.E.C.																
1977 Census--	317	368	132	10.5	149.1	6.3	12.9	77.1	1 452.6	1 069.0	2 511.3	33.1	(NA)	222.1	92	86
1976 ASM----	(NA)	(NA)	(NA)	11.9	147.2	7.1	13.4	72.9	1 283.3	1 146.9	2 421.2	38.0	352.4	201.3	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	11.3	128.7	6.5	12.7	59.1	1 102.9	1 253.9	2 361.0	28.8	301.5	207.7	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	12.2	140.8	7.0	14.8	67.1	1 123.3	1 209.1	2 306.2	25.5	326.6	239.2	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	10.2	105.8	6.1	12.5	53.5	889.5	691.5	1 567.0	24.6	296.4	176.7	(NA)	(NA)
1972 Census--	350	400	115	10.1	100.9	6.0	12.4	49.4	871.9	612.0	1 472.0	21.1	263.7	159.7	87	86
1971 ASM----	(NA)	(NA)	(NA)	9.8	91.4	5.3	11.1	39.7	761.1	575.4	1 331.9	39.2	256.0	146.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	10.8	91.1	6.3	12.8	43.3	792.1	564.0	1 361.3	39.8	242.2	138.9	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	10.1	77.3	5.8	12.0	37.9	673.7	495.4	1 173.7	19.9	213.9	116.6	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	9.3	71.5	5.4	10.8	33.3	667.0	486.9	1 145.5	16.0	195.4	126.6	(NA)	(NA)
1967 Census--	401	431	110	9.7	73.0	5.5	11.0	33.0	584.0	429.8	1 009.1	17.4	185.4	113.3	94	85
1966 ASM----	(NA)	(NA)	(NA)	10.6	70.8	5.9	11.7	31.3	555.5	422.0	974.4	23.6	(NA)	109.6	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	9.4	62.8	5.0	10.1	25.7	487.5	352.9	836.5	14.8	(NA)	97.5	(NA)	(NA)
1964 ASM[6]---	(NA)	(NA)	(NA)	9.4	63.5	5.2	11.5	27.8	448.2	383.4	833.1	12.2	132.7	98.3	(NA)	(NA)
1963 Census--	492	520	97	9.1	56.6	5.0	10.2	25.1	400.2	334.0	729.7	12.3	126.5	104.2	90	79

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2082, MALT BEVERAGES											
1977 Census--	19 493	(NA)	70	1 962	9.64	60	73	(NA)	59 155	32	42.62
1976 ASM----	17 578	83 266	68	2 017	8.52	61	73	59	53 074	33	38.21
1975 ASM----	15 411	67 008	69	1 951	7.69	64	77	55	42 636	36	31.37
1974 ASM----	14 564	57 023	69	2 005	7.07	62	77	56	39 904	36	28.80
1973 ASM----	13 391	52 411	68	1 985	6.51	55	70	59	39 977	33	29.25
1972 Census--	12 675	46 627	65	1 979	6.10	50	67	59	38 710	32	29.79
1971 ASM----	11 466	41 015	65	1 924	5.65	47	63	56	38 185	30	30.39
1970 ASM----	10 743	39 291	66	1 955	5.14	47	63	58	35 383	30	27.28
1969 ASM----	9 961	36 378	67	1 922	4.84	47	64	60	31 200	31	24.09
1968 ASM----	9 148	32 344	67	1 926	4.49	48	65	60	27 821	32	21.34
1967 Census--	8 721	29 107	67	1 920	4.31	47	64	59	25 934	33	20.12
1966 ASM----	8 416	(NA)	66	1 947	4.25	47	66	(NA)	23 347	36	17.99
1965 ASM----	8 081	(NA)	67	1 938	3.94	45	65	(NA)	22 521	35	17.28
1964 ASM----	7 844	22 914	67	1 919	3.86	44	64	57	22 071	35	16.95
1963 Census--	7 520	21 595	68	1 918	3.69	44	64	58	20 543	36	15.70
INDUSTRY 2083, MALT											
1977 Census--	16 927	(NA)	75	2 088	7.87	75	81	(NA)	62 674	27	39.92
1976 ASM----	15 250	96 312	75	2 000	7.58	84	89	29	54 625	27	36.41
1975 ASM----	14 000	78 588	76	1 923	6.92	78	82	22	71 529	19	48.64
1974 ASM----	13 117	65 764	76	2 000	6.38	83	87	23	63 411	20	41.46
1973 ASM----	13 333	71 466	80	2 000	6.08	77	84	38	48 400	27	30.25
1972 Census--	11 764	84 882	76	1 923	5.92	74	83	48	32 352	36	22.00
1971 ASM----	11 000	55 944	77	2 071	5.17	71	80	46	33 833	32	21.00
1970 ASM----	10 210	51 000	73	2 142	4.90	73	82	46	30 421	33	19.26
1969 ASM----	9 428	52 190	76	2 062	4.45	73	82	49	27 476	34	17.48
1968 ASM----	9 050	52 700	75	2 066	4.29	74	82	48	27 000	33	17.41
1967 Census--	8 550	50 450	75	2 066	4.09	77	85	46	23 750	36	15.32
1966 ASM----	8 500	(NA)	77	2 000	3.96	76	84	(NA)	26 944	31	17.32
1965 ASM----	8 315	(NA)	78	2 000	3.86	74	82	(NA)	26 631	31	16.86
1964 ASM----	8 190	46 095	76	2 062	3.78	74	82	44	27 761	29	17.66
1963 Census--	7 947	49 684	78	2 000	3.60	71	79	51	23 157	34	14.66
INDUSTRY 2084, WINES, BRANDY, AND BRANDY SPIRITS											
1977 Census--	14 628	(NA)	59	1 932	6.65	65	75	(NA)	55 695	26	48.77
1976 ASM----	12 759	46 173	55	1 879	6.14	58	69	39	51 865	24	49.48
1975 ASM----	12 129	43 583	58	1 873	5.61	57	68	39	46 296	26	42.37
1974 ASM----	11 480	38 970	58	2 033	4.79	49	57	29	75 647	15	63.24
1973 ASM----	9 857	34 540	66	1 923	3.92	61	71	34	45 571	21	35.72
1972 Census--	9 734	27 223	59	2 107	4.07	62	72	29	43 393	22	34.56
1971 ASM----	8 310	23 951	61	1 857	3.62	58	69	33	36 572	22	32.19
1970 ASM----	8 244	24 562	62	2 018	3.36	56	68	35	30 034	27	23.69
1969 ASM----	8 057	24 814	64	1 977	3.42	57	69	35	35 057	22	27.57
1968 ASM----	7 477	24 656	62	2 023	3.15	56	67	37	29 522	25	23.27
1967 Census--	8 955	22 750	63	2 000	2.91	57	69	37	28 941	24	22.88
1966 ASM----	6 846	(NA)	64	2 023	2.80	55	66	(NA)	29 753	23	22.75
1965 ASM----	6 531	(NA)	65	2 023	2.72	66	77	(NA)	26 046	25	19.61
1964 ASM----	6 234	20 828	70	1 977	2.60	63	73	34	24 859	25	17.87
1963 Census--	5 754	19 491	68	2 000	2.44	62	71	32	22 508	25	16.34
INDUSTRY 2085, DISTILLED LIQUOR, EXCEPT BRANDY											
1977 Census--	14 767	(NA)	76	1 983	7.05	50	60	(NA)	73 164	20	48.22
1976 ASM----	13 245	36 213	74	2 016	6.30	47	57	27	69 238	19	45.87
1975 ASM----	12 147	33 975	75	1 991	5.78	47	57	27	64 773	18	43.09
1974 ASM----	11 269	31 347	75	1 984	5.40	47	57	28	59 221	19	39.56
1973 ASM----	10 724	30 775	76	2 030	5.04	45	56	29	56 637	18	36.50
1972 Census--	9 951	28 010	78	1 972	4.63	43	53	28	55 652	17	35.80
1971 ASM----	9 260	25 958	75	1 966	4.37	48	57	26	49 968	18	32.30
1970 ASM----	8 341	23 395	79	1 926	4.00	49	59	27	43 263	19	28.24
1969 ASM----	8 014	23 219	80	2 024	3.61	45	55	28	45 151	17	27.87
1968 ASM----	7 620	21 145	79	2 031	3.43	45	55	27	42 200	18	26.13
1967 Census--	7 298	20 072	80	2 044	3.26	46	57	28	37 974	19	23.09
1966 ASM----	6 842	(NA)	80	1 980	3.13	45	55	(NA)	38 057	17	24.02
1965 ASM----	6 650	(NA)	78	1 993	3.07	44	54	(NA)	37 708	17	23.99
1964 ASM----	6 494	19 292	79	1 971	3.00	41	52	30	37 089	17	23.57
1963 Census--	6 122	18 483	79	1 965	2.85	42	52	30	34 650	17	22.19

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2086, BOTTLED AND CANNED SOFT DRINKS										
1977 Census--	12 699	(NA)	38	2 056	4.98	59	74	(NA)	35 801	35	45.72
1976 ASM----	11 195	20 385	36	2 020	4.52	59	75	28	29 191	38	38.54
1975 ASM----	10 365	20 001	36	1 976	4.26	61	75	27	28 458	36	39.44
1974 ASM----	9 289	18 156	35	1 982	3.84	62	77	30	22 802	40	32.12
1973 ASM----	8 763	17 612	38	2 004	3.45	59	77	36	19 937	43	25.97
1972 Census--	8 128	15 276	37	2 015	3.23	57	75	33	19 295	42	25.42
1971 ASM----	7 922	14 378	37	2 052	2.99	56	75	34	18 353	43	23.58
1970 ASM----	7 111	12 688	38	2 094	2.69	54	74	35	16 468	43	20.41
1969 ASM----	6 486	12 527	38	1 983	2.63	52	72	39	15 114	42	19.85
1968 ASM----	6 183	12 019	38	2 023	2.42	49	71	41	14 514	42	18.66
1967 Census--	5 893	11 283	37	2 045	2.30	47	70	43	13 620	43	17.62
1966 ASM----	5 667	(NA)	37	2 146	2.14	46	70	(NA)	12 496	45	15.68
1965 ASM----	5 394	(NA)	36	2 140	2.02	45	69	(NA)	12 051	44	15.23
1964 ASM----	5 243	10 583	36	2 175	1.93	42	66	48	12 491	41	15.55
1963 Census--	5 029	10 325	38	2 124	1.89	44	68	49	11 539	43	14.19
	INDUSTRY 2087, FLAVORING EXTRACTS AND SIRUPS, N.E.C.										
1977 Census--	14 144	(NA)	59	2 044	5.98	42	48	(NA)	137 840	10	112.79
1976 ASM----	12 369	29 613	59	1 887	5.44	47	53	14	107 840	11	95.76
1975 ASM----	11 389	26 681	57	1 953	4.65	53	58	12	97 601	11	86.84
1974 ASM----	11 540	26 770	57	2 114	4.53	52	58	14	92 073	12	75.89
1973 ASM----	10 372	29 058	59	2 049	4.28	44	50	18	87 205	11	71.16
1972 Census--	9 990	26 108	59	2 066	3.98	41	48	17	86 326	11	70.31
1971 ASM----	9 326	26 122	54	2 094	3.57	43	50	19	77 663	12	68.56
1970 ASM----	8 435	22 425	58	2 031	3.38	41	48	17	73 342	11	61.88
1969 ASM----	7 653	21 178	57	2 068	3.15	42	48	18	66 702	11	56.14
1968 ASM----	7 688	21 010	58	2 000	3.08	42	48	17	71 720	10	61.75
1967 Census--	7 525	19 113	56	2 000	3.00	42	49	15	60 206	12	53.09
1966 ASM----	6 679	(NA)	55	1 983	2.67	43	50	(NA)	52 405	12	47.47
1965 ASM----	6 680	(NA)	53	2 020	2.54	42	49	(NA)	51 861	12	48.26
1964 ASM----	6 755	14 117	55	2 211	2.41	46	53	15	47 680	14	38.97
1963 Census--	6 219	13 901	54	2 040	2.46	45	53	17	43 978	14	39.23

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2082, MALT BEVERAGES													
United States	-	**131**	**91**	**44.0**	**857.5**	**31.1**	**61.1**	**589.1**	**2 602.3**	**4 045.1**	**6 652.6**	**410.3**	**51.5**	**1 993.6**
New England Division:													
New Hampshire	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Rhode Island	E1	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:														
New York	-	12	5	2.9	59.1	2.1	4.3	41.2	170.0	327.2	495.1	38.2	6.3	245.2
New Jersey	-	8	6	3.1	55.3	2.5	4.3	40.4	138.4	211.5	350.1	3.5	4.1	128.3
Pennsylvania	-	14	9	2.6	41.5	2.0	3.7	30.9	167.3	162.3	329.0	(D)	3.8	89.3
East North Central Division:														
Ohio	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Indiana	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Illinois	-	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Michigan	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Wisconsin	-	10	9	7.9	164.2	5.2	11.1	109.1	409.4	549.8	964.7	70.6	(NA)	(D)
West North Central Division:														
Minnesota	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	73.7
Missouri	-	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Nebraska	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:														
Maryland	-	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	48.5
Virginia	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
North Carolina	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Georgia	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Florida	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
East South Central Division:														
Kentucky	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Tennessee	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:														
Louisiana	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Texas	-	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Mountain Division:														
Colorado	-	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
Washington	-	6	6	1.6	25.9	1.1	2.0	17.5	90.1	144.7	235.4	3.3	(NA)	(D)
Oregon	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
California	-	11	5	2.6	54.5	2.0	3.8	40.8	184.5	313.6	497.3	(D)	2.5	122.7
INDUSTRY 2083, MALT														
United States	-	**40**	**27**	**1.6**	**27.4**	**1.2**	**2.5**	**20.0**	**101.4**	**377.7**	**499.3**	**39.6**	**1.7**	**55.0**
East North Central Division:														
Illinois	-	4	4	0.2	3.1	0.2	0.3	2.7	4.7	22.5	27.4	0.9	(NA)	(D)
Wisconsin	-	13	7	0.6	10.5	0.4	0.9	7.3	46.1	168.5	232.5	2.0	(NA)	(D)
West North Central Division:														
Minnesota	-	8	5	0.3	5.3	0.2	0.5	3.8	21.1	79.4	102.3	(D)	(NA)	(D)
INDUSTRY 2084, WINES, BRANDY, AND BRANDY SPIRITS														
United States	-	**269**	**76**	**9.2**	**134.1**	**5.4**	**10.5**	**69.8**	**510.4**	**893.8**	**1 362.5**	**51.1**	**9.4**	**407.9**
Middle Atlantic Division:														
New York	-	24	10	1.4	20.6	0.9	1.8	8.9	72.3	94.2	168.8	4.0	1.6	63.7
East North Central Division:														
Illinois	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
California	-	165	54	6.9	103.7	4.0	7.8	55.7	405.6	745.7	1 109.3	43.8	6.3	297.6
INDUSTRY 2085, DISTILLED LIQUOR, EXCEPT BRANDY														
United States	-	**104**	**77**	**15.7**	**232.1**	**12.0**	**23.8**	**168.1**	**[3]1 149.7**	**1 163.0**	**[3]2 296.1**	**36.3**	**18.4**	**1 024.0**
New England Division:														
Massachusetts	-	4	4	0.5	6.3	0.3	0.7	3.3	19.1	43.4	63.2	0.4	(NA)	(D)
Connecticut	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:														
New Jersey	-	7	7	0.7	10.4	0.5	1.0	7.0	34.2	63.5	98.7	(D)	0.7	18.4
Pennsylvania	-	7	5	1.1	14.4	0.9	1.8	11.0	60.9	73.5	134.2	1.6	(NA)	(D)
East North Central Division:														
Ohio	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Indiana	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Illinois	-	7	6	1.9	29.3	1.4	2.4	20.9	90.5	146.6	238.1	(D)	2.3	96.3
Michigan	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West North Central Division:														
Missouri	-	3	3	0.3	3.7	0.2	0.3	1.8	19.1	31.1	50.0	(D)	(NA)	(D)
Kansas	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2085, DISTILLED LIQUOR, EXCEPT BRANDY—Con.														
South Atlantic Division:														
Maryland	-	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
East South Central Division:														
Kentucky	-	28	20	4.3	60.6	3.4	6.3	45.8	315.2	279.7	576.9	6.8	(NA)	(D)
Tennessee	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
California	-	12	8	0.9	13.6	0.7	1.3	10.0	107.4	80.8	186.6	(D)	(NA)	(D)
INDUSTRY 2086, BOTTLED AND CANNED SOFT DRINKS														
United States	-	**2 192**	**1 286**	**114.1**	**1 448.8**	**43.4**	**89.3**	**444.8**	**4 084.5**	**5 958.6**	**10 007.2**	**423.6**	**121.1**	**2 336.7**
New England Division:														
Maine	-	14	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
New Hampshire	-	8	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Vermont	E1	7	4	0.2	2.0	0.1	0.1	0.4	4.8	6.4	11.2	0.3	(NA)	(NA)
Massachusetts	E1	58	20	2.1	26.5	0.8	1.6	7.9	57.7	142.6	199.3	8.1	2.5	53.3
Rhode Island	-	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Connecticut	-	27	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:														
New York	-	126	57	5.2	74.3	2.5	4.9	31.6	216.8	352.7	568.9	17.0	7.2	180.1
New Jersey	-	49	24	2.2	34.3	1.0	2.1	12.2	142.8	199.0	341.3	7.3	2.8	95.1
Pennsylvania	-	137	67	5.2	76.3	2.0	4.0	21.3	187.4	293.1	477.6	15.4	5.7	104.2
East North Central Division:														
Ohio	E1	84	57	6.4	85.8	2.4	4.9	26.0	245.1	297.7	538.3	15.4	7.2	138.3
Indiana	-	51	39	3.4	45.4	1.2	2.2	12.4	131.3	195.2	325.8	11.6	3.2	65.0
Illinois	-	87	42	4.9	82.8	2.0	4.7	27.7	189.0	302.2	489.2	16.5	5.6	108.6
Michigan	-	63	32	3.9	60.9	1.5	3.0	19.2	173.8	227.2	400.1	17.2	4.2	101.8
Wisconsin	E1	83	27	2.3	30.1	1.0	2.1	10.6	84.4	125.1	210.2	5.4	2.4	44.4
West North Central Division:														
Minnesota	-	48	29	2.4	32.8	0.8	1.9	9.7	85.5	105.2	189.9	7.1	(NA)	(D)
Iowa	-	30	21	1.2	17.6	0.5	1.5	4.4	52.1	68.4	119.8	(D)	1.7	32.6
Missouri	-	56	31	2.9	41.8	1.1	2.2	12.5	89.9	132.0	221.2	(D)	3.3	65.8
North Dakota	-	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.7
South Dakota	E1	8	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Nebraska	E1	24	18	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Kansas	-	29	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:														
Delaware	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Maryland	-	33	22	2.4	31.2	0.9	1.8	9.4	103.1	156.4	258.2	6.3	3.0	72.2
Virginia	-	48	38	3.1	35.2	1.2	2.6	11.0	120.1	157.5	276.8	(D)	3.2	49.1
West Virginia	E2	36	20	1.2	13.7	0.5	1.0	4.0	40.8	49.8	90.1	4.2	1.4	21.8
North Carolina	E1	92	61	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Carolina	-	34	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Georgia	E2	67	49	3.6	37.7	1.4	2.8	12.0	86.4	154.2	240.6	(D)	4.4	62.7
Florida	E1	62	36	4.5	52.2	1.8	3.5	16.2	157.2	218.4	371.7	15.5	4.1	76.8
East South Central Division:														
Kentucky	-	43	29	2.9	34.6	1.0	2.0	10.3	94.1	132.5	224.9	11.9	3.1	56.9
Tennessee	-	66	46	4.0	43.5	1.3	2.7	10.4	115.7	169.9	284.3	14.8	(NA)	(D)
Alabama	-	40	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Mississippi	E1	41	28	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	30.6
West South Central Division:														
Arkansas	-	39	23	1.6	18.3	0.6	1.4	5.3	49.4	63.7	112.3	5.0	(NA)	(D)
Louisiana	-	46	35	3.4	37.5	1.2	2.3	10.6	88.8	146.0	235.3	9.3	3.1	47.7
Oklahoma	-	41	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Texas	-	153	99	11.0	119.4	4.0	8.1	32.7	356.0	495.4	846.4	56.7	9.5	141.3
Mountain Division:														
Montana	E2	17	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Idaho	E1	15	13	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	6.4
Wyoming	E1	9	3	0.2	2.5	0.1	0.2	0.8	7.6	12.6	20.2	0.9	(NA)	(NA)
Colorado	-	26	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
New Mexico	-	21	13	0.7	7.8	0.3	0.5	2.2	23.5	38.2	61.6	1.6	0.7	11.3
Arizona	-	22	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	21.7
Utah	E1	23	12	0.8	9.8	0.4	0.7	2.8	30.4	44.5	74.6	3.7	0.7	11.5
Nevada	-	8	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	6.3
Pacific Division:														
Washington	-	34	16	1.3	19.2	0.6	1.2	8.4	59.0	101.4	159.7	10.2	(NA)	(D)
Oregon	-	23	15	0.8	13.4	0.3	0.9	4.5	32.0	28.3	60.1	2.5	(NA)	(D)
California	-	129	73	7.9	114.1	3.2	6.5	39.9	396.0	539.4	932.5	49.1	7.3	210.1
Hawaii	-	10	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)

See footnotes at end of table.

Table 2. **Industry Statistics by Geographic Area: 1977 and 1972**—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2087, FLAVORING EXTRACTS AND SIRUPS, N.E.C.														
United States	-	**368**	**132**	**10.5**	**149.1**	**6.3**	**12.9**	**77.1**	**1 452.6**	**1 069.0**	**2 511.3**	**33.1**	**10.1**	**871.9**
New England Division:														
Massachusetts	E4	15	4	0.3	4.7	0.2	0.4	1.9	15.2	14.8	30.1	0.5	(NA)	(D)
Middle Atlantic Division:														
New York	E1	37	10	0.7	10.4	0.4	1.0	4.9	111.9	78.8	190.4	1.7	1.2	76.8
New Jersey	-	34	17	1.2	18.5	0.7	1.4	8.8	82.8	94.4	176.7	3.5	1.2	59.0
Pennsylvania	E4	17	4	0.2	3.9	0.1	0.5	2.1	12.5	13.4	25.9	0.4	0.3	8.2
East North Central Division:														
Ohio	-	21	5	0.5	7.6	0.3	0.6	3.5	97.2	62.3	158.6	2.1	0.4	42.7
Indiana	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois	-	36	21	2.6	37.6	1.7	3.5	22.9	358.7	243.8	598.4	6.9	2.4	208.8
Michigan	E1	9	3	0.2	2.2	0.1	0.2	0.9	11.7	11.1	22.2	(D)	(NA)	(NA)
West North Central Division:														
Missouri	-	10	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	36.8
South Atlantic Division:														
Maryland	-	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Georgia	-	14	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
East South Central Division:														
Alabama	E1	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Texas	-	15	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
Washington	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California	E1	51	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	75.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Malt beverages (SIC 2082)	Malt (SIC 2083)	Wines, brandy, and brandy spirits (SIC 2084)	Distilled liquor, except brandy (SIC 2085)	Bottled and canned soft drinks (SIC 2086)	Flavoring extracts and sirups, n.e.c. (SIC 2087)
Primary product specialization ratio[1]	percent	100	100	98	98	98	92
Coverage ratio[2]	do	100	100	97	98	97	86
All establishments	number	131	40	269	104	2 192	368
With 1 to 19 employees	do	40	13	193	27	906	236
With 20 to 99 employees	do	23	24	56	33	1 001	112
With 100 employees or more	do	68	3	20	44	285	20
All employees, average for year	1,000	44.0	1.6	9.2	15.7	114.1	10.5
Payroll for year, all employees	mil. dol.	857.5	27.4	134.1	232.1	1 448.8	149.1
Production workers:							
Average for year	1,000	31.1	1.2	5.4	12.0	43.4	6.3
March	do	30.0	1.2	5.2	11.4	40.8	6.2
May	do	31.9	1.2	5.2	11.4	43.6	6.5
August	do	32.0	1.3	5.4	11.9	46.4	6.4
November	do	30.5	1.1	5.9	13.4	42.6	6.1
Hours	millions	61.1	2.5	10.5	23.8	89.3	12.9
January to March	do	14.3	0.6	2.4	5.5	20.3	3.2
April to June	do	16.2	0.7	2.4	5.7	22.6	3.3
July to September	do	16.2	0.7	2.7	6.0	24.7	3.2
October to December	do	14.4	0.6	2.9	6.7	21.7	3.2
Wages	mil. dol.	589.1	20.0	69.6	168.1	444.8	77.1
Cost of materials, etc.	do	4 045.1	377.7	893.8	1 163.0	5 958.6	1 069.0
Materials, parts, containers, etc., consumed	do	3 877.2	344.9	863.3	924.2	4 787.1	982.8
Resales	do	(D)	(D)	17.1	207.5	1 056.2	37.4
Fuels consumed	do	81.2	15.4	5.4	22.2	34.3	7.7
Purchased electric energy	do	50.9	8.0	7.9	7.9	42.9	6.2
Contract work	do	(D)	(D)	0.1	1.2	38.1	34.9
Value of shipments, including resales	do	6 652.6	499.3	1 362.5	[5]2 296.1	10 007.2	2 511.3
Value of resales	do	(D)	(D)	22.9	303.6	1 446.2	46.1
Value added by manufacture	do	2 602.3	101.4	510.4	[5]1 149.7	4 084.5	1 452.6
Manufacturers' inventories:							
Beginning of year	do	406.5	183.0	513.5	996.6	467.2	193.1
Finished products	do	32.2	63.0	174.4	911.9	212.9	78.7
Work in process	do	107.5	8.3	293.8	25.5	17.7	7.3
Materials, supplies, fuel, etc.	do	266.7	111.7	45.3	59.2	236.7	107.1
End of year	do	444.6	134.2	559.5	1 027.9	551.7	222.1
Finished products	do	36.3	45.1	196.9	915.2	247.7	90.2
Work in process	do	98.1	6.1	313.0	42.2	18.7	6.1
Materials, supplies, fuel, etc.	do	310.1	83.0	49.7	70.6	285.3	125.8
Capital expenditures for plant and equipment	do	418.9	39.6	52.6	38.0	451.1	34.0
New capital expenditures	do	410.3	39.6	51.1	36.3	423.6	33.1
New buildings and other structures	do	74.8	19.5	13.6	9.8	72.5	6.9
New machinery and equipment	do	335.5	20.1	37.6	26.5	351.0	26.2
Used capital expenditures	do	8.6	(Z)	1.5	1.7	27.6	0.9

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Malt beverages (SIC 2082)		Malt (SIC 2083)		Wines, brandy, and brandy spirits (SIC 2084)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	14.0	6	0.5	5	(0.9)	41
Response coverage ratio[2] (percent)	67.9	(X)	64.9	(X)	66.0	(X)
Machinery	42.4	2	2.0	4	7.0	8
Response coverage ratio[2] (percent)	60.1	(X)	88.6	(X)	60.9	(X)
Cost of purchased communication services	5.5	7	(0.1)	68	(2.4)	20
Response coverage ratio[2] (percent)	75.2	(X)	65.6	(X)	49.2	(X)
Rental payments	17.8	2	0.7	11	7.7	11
Buildings and other structures	4.4	1	(0.3)	29	3.1	10
Machinery and equipment	13.4	2	0.5	1	(4.6)	17
Supplemental labor costs	188.7	2	6.4	2	31.2	2
Legal costs	71.4	3	2.1	4	13.3	2
Voluntary costs	117.3	2	4.3	4	17.9	3
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning or year	1,078.9	1	70.5	5	160.9	8
New capital expenditures	81.1	6	19.1	2	(14.3)	21
Used capital expenditures	(0.3)	74	-	(X)	(1.6)	59
Retirements	(2.2)	16	(4.5)	75	(0.9)	25
End of year	1,158.2	1	85.2	3	176.0	9
Machinery and equipment:						
Beginning of year	2,431.6	1	79.2	8	304.8	3
New capital expenditures[3]	344.8	3	19.2	5	40.9	9
Automobiles, trucks, etc., for highway use[3]	(4.3)	(A)	(Z)	(X)	(0.8)	(A)
Computers and peripheral data processing equipment[3]	(6.9)	(A)	-	(X)	(1.6)	(A)
All other[3]	(303.7)	(A)	(13.6)	(A)	(32.5)	(A)
New machinery and equipment, n.s.k.[4]	(29.9)	(A)	(5.6)	(A)	(6.0)	(A)
Used capital expenditures	(10.6)	18	-	(X)	(0.9)	15
Retirements	38.5	4	(4.7)	73	5.1	10
End of year	2,748.5	1	93.7	6	341.6	3
Tota' gross value of depreciable assets:						
Beginning of year	3,510.4	1	149.7	7	465.8	4
New capital expenditures	425.9	3	38.4	3	55.2	11
Used capital expenditures	(11.0)	20	-	(X)	(2.5)	39
Retirements	40.7	4	(9.3)	74	5.9	12
End of year	3,906.6	1	178.8	5	517.6	3
Depreciation charges during 1977	193.1	3	8.7	5	30.0	6
Buildings and other structures	41.1	6	3.2	3	(6.5)	17
Machinery and equipment	151.9	2	5.5	7	23.5	3

See footnotes at end of table.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977—Con.

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Distilled liquor, except brandy (SIC 2085)		Bottled and canned soft drinks (SIC 2086)		Flavoring extracts and sirups, n.e.c. (SIC 2087)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	1.1	12	(34.0)	49	(2.3)	16
Response coverage ratio[2] (percent)	62.4	(X)	60.2	(X)	65.0	(X)
Machinery	3.9	3	65.1	9	6.6	13
Response coverage ratio[2] (percent)	62.8	(X)	59.5	(X)	53.1	(X)
Cost of purchased communication services	1.6	6	(48.6)	62	(2.6)	29
Response coverage ratio[2] (percent)	76.9	(X)	60.5	(X)	56.1	(X)
Rental payments	7.4	4	83.8	5	5.9	14
Buildings and other structures	1.3	4	40.1	6	(3.2)	23
Machinery and equipment	6.1	5	43.7	7	(2.7)	16
Supplemental labor costs	55.7	1	245.7	2	27.6	3
Legal costs	18.6	1	127.3	2	11.3	3
Voluntary costs	37.1	2	118.3	2	16.2	5
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning of year	269.6	3	661.9	3	146.7	7
New capital expenditures	9.5	2	78.2	13	(10.9)	27
Used capital expenditures	-	(X)	(11.3)	25	(0.9)	90
Retirements	1.3	7	(27.3)	20	(4.0)	27
End of year	277.9	3	724.2	3	154.4	7
Machinery and equipment:						
Beginning of year	325.1	2	1,910.4	1	199.9	5
New capital expenditures[3]	26.4	4	359.8	4	27.2	8
Automobiles, trucks, etc., for highway use[3]	(0.3)	(A)	(76.1)	(A)	(0.5)	(A)
Computers and peripheral data processing equipment[3]	(Z)	(A)	4.5	(A)	(0.2)	(A)
All other[1 3]	(23.3)	(A)	(259.3)	(A)	(24.2)	(A)
New machinery and equipment, n.s.k.[3]	(2.9)	(A)	(19.9)	(A)	(2.3)	(A)
Used capital expenditures	1.7	1	(19.0)	15	(2.5)	48
Retirements	4.7	4	127.3	14	9.3	9
End of year	348.5	2	2,161.9	1	220.2	5
Total gross value of depreciable assets:						
Beginning of year	594.7	2	2,572.3	1	346.5	4
New capital expenditures	35.9	3	438.0	4	38.1	10
Used capital expenditures	1.7	1	(30.4)	15	(3.4)	54
Retirements	6.0	4	154.6	7	13.3	13
End of year	626.4	2	2,886.1	1	374.7	4
Depreciation charges during 1977	25.2	3	235.4	4	19.7	5
Buildings and other structures	7.4	3	27.6	4	5.4	6
Machinery and equipment	17.8	3	207.8	4	14.3	6

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

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Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2082, MALT BEVERAGES												
Total	-	131	44.0	857.5	31.1	61.1	589.1	2 602.3	4 045.1	6 652.6	410.3	444.6
Establishments with an average of—												
1 to 4 employees	E9	27	(Z)	1.1	(Z)	(Z)	0.4	1.4	3.2	4.6	(160.0)	1.1
5 to 9 employees	E0	8	0.1	1.0	(Z)	0.1	0.8	2.8	4.6	7.4	(D)	0.5
10 to 19 employees	E3	5	0.1	1.1	(Z)	0.1	0.7	3.1	3.9	7.0	(D)	0.4
20 to 49 employees	E1	13	0.4	6.0	0.3	0.5	3.3	14.6	13.4	27.9	(D)	2.7
50 to 99 employees	-	10	0.7	9.2	0.5	1.0	5.6	27.2	36.4	63.4	(D)	4.5
100 to 249 employees	-	19	3.2	48.2	2.3	4.6	31.5	144.6	184.1	329.5	(D)	31.6
250 to 499 employees	-	21	7.5	137.6	5.6	10.9	97.7	442.3	702.7	1 143.9	(D)	71.9
500 to 999 employees	-	19	12.7	238.1	9.2	17.2	168.7	935.8	1 375.2	2 319.5	91.0	114.2
1,000 to 2,499 employees	-	6	9.4	205.1	7.2	14.1	148.3	548.7	883.5	1 430.1	68.6	75.0
2,500 employees or more	-	3	9.9	210.1	6.0	12.4	131.3	481.8	836.1	1 319.3	90.8	142.6
Covered by administrative records[2]	E0	28	0.1	1.8	0.1	0.1	1.2	5.1	8.2	13.2	0.7	0.8
INDUSTRY 2083, MALT												
Total	-	40	1.6	27.4	1.2	2.5	20.0	101.4	377.7	499.3	39.6	134.2
Establishments with an average of—												
1 to 4 employees	-	4	(Z)	(0.4)	(Z)	(0.1)	(0.4)	(1.2)	(5.2)	(6.9)	(31.0)	(1.7)
5 to 9 employees	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	-	6	0.1	1.4	0.1	0.1	1.1	4.3	27.5	31.7	(D)	7.0
20 to 49 employees	-	16	0.5	8.6	0.4	0.9	6.4	29.2	113.6	144.1	(D)	37.0
50 to 99 employees	-	8	0.6	9.3	0.4	0.9	7.2	33.9	98.3	134.9	(8.7)	39.3
100 to 249 employees	-	3	0.4	7.7	0.3	0.6	5.0	32.8	133.1	181.6	(D)	49.1
Covered by administrative records[2]	E0	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
INDUSTRY 2084, WINES, BRANDY, AND BRANDY SPIRITS												
Total	-	269	9.2	134.1	5.4	10.5	69.6	510.4	893.8	1 362.5	51.1	559.5
Establishments with an average of—												
1 to 4 employees	E8	124	0.2	2.3	0.1	0.2	1.2	7.7	11.1	18.9	1.0	8.5
5 to 9 employees	E6	41	0.3	3.4	0.2	0.3	1.9	12.3	18.1	27.5	3.3	21.2
10 to 19 employees	E2	28	0.4	5.6	0.3	0.5	3.6	27.4	44.2	65.3	2.0	41.8
20 to 49 employees	-	36	1.2	15.3	0.8	1.5	9.8	56.5	96.6	152.3	7.7	92.3
50 to 99 employees	-	20	1.4	18.4	0.9	1.5	9.1	63.6	83.4	136.4	7.5	98.2
100 to 249 employees	-	13	2.0	29.9	1.2	2.4	16.0	111.5	228.2	314.8	11.8	127.3
250 to 499 employees	-	5	(3.7)	(59.3)	(2.0)	(4.0)	(28.1)	(231.4)	(412.2)	(647.3)	(17.9)	(170.2)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	141	0.5	6.5	0.3	0.5	3.3	21.3	30.4	51.7	1.9	23.1
INDUSTRY 2085, DISTILLED LIQUOR, EXCEPT BRANDY												
Total	-	104	15.7	232.1	12.0	23.8	168.1	[3]1 149.7	1 163.0	[3]2 296.1	36.3	1 027.9
Establishments with an average of—												
1 to 4 employees	E0	9	(Z)	0.1	(Z)	(Z)	0.1	0.5	0.5	1.0	(Z)	0.4
5 to 9 employees	E0	6	(Z)	0.6	(Z)	0.1	0.4	2.0	1.9	3.9	(Z)	2.3
10 to 19 employees	E0	12	0.2	2.1	0.1	0.2	1.5	8.9	8.2	17.0	0.3	7.7
20 to 49 employees	-	15	0.6	7.4	0.4	0.7	4.4	45.9	40.8	86.8	5.8	26.6
50 to 99 employees	-	18	1.2	14.5	0.9	1.7	9.8	40.2	109.3	148.6	1.9	114.6
100 to 249 employees	-	22	3.7	49.9	2.6	5.0	33.7	199.0	274.8	458.7	5.4	250.6
250 to 499 employees	-	16	5.5	84.5	4.3	8.6	61.0	475.0	421.7	896.1	17.6	317.3
500 to 999 employees	-	5	(4.5)	(73.0)	(3.7)	(7.5)	(57.1)	(378.2)	(305.8)	(683.9)	(5.5)	(308.5)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	21	0.2	2.3	0.1	0.3	1.6	11.0	10.1	21.1	0.3	8.2
INDUSTRY 2086, BOTTLED AND CANNED SOFT DRINKS												
Total	-	2 192	114.1	1 448.8	43.4	89.3	444.8	4 084.5	5 958.6	10 007.2	423.6	551.7
Establishments with an average of—												
1 to 4 employees	E9	421	0.7	7.6	0.3	0.5	2.3	17.1	28.4	47.6	1.9	2.5
5 to 9 employees	E7	214	1.5	17.8	0.6	1.2	5.6	47.3	73.4	120.6	5.9	6.4
10 to 19 employees	E3	270	3.8	47.7	1.5	3.1	15.2	123.4	183.6	306.2	8.3	17.7
20 to 49 employees	-	635	20.7	252.6	8.7	18.4	81.6	682.4	1 109.8	1 788.3	70.3	99.7
50 to 99 employees	-	367	25.7	316.4	10.5	21.6	101.2	950.7	1 504.8	2 444.9	87.8	135.9
100 to 249 employees	-	208	31.8	403.0	11.8	24.4	124.1	1 231.8	1 781.8	3 000.9	108.4	157.4
250 to 499 employees	-	66	22.9	303.0	7.9	16.1	90.0	798.6	1 009.4	1 798.4	118.7	103.8
500 to 999 employees	-	10	(7.1)	(100.7)	(2.0)	(4.1)	(24.9)	(235.2)	(267.4)	(500.4)	(22.1)	(25.5)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E9	614	2.9	33.5	1.1	2.2	10.1	82.0	122.9	204.9	8.2	10.6
INDUSTRY 2087, FLAVORING EXTRACTS AND SIRUPS, N.E.C.												
Total	-	388	10.5	149.1	6.3	12.9	77.1	1 452.6	1 069.0	2 511.3	33.1	222.1
Establishments with an average of—												
1 to 4 employees	E6	110	0.2	2.3	0.1	0.2	1.2	19.2	11.7	31.1	0.5	2.6
5 to 9 employees	E4	56	0.4	4.5	0.2	0.4	2.2	58.1	27.3	85.4	0.7	4.5
10 to 19 employees	E1	70	1.0	12.9	0.6	1.4	6.0	81.8	96.2	177.5	1.7	13.9
20 to 49 employees	-	77	2.3	31.6	1.3	2.6	14.3	397.7	255.3	650.5	7.4	50.0
50 to 99 employees	-	35	2.3	33.0	1.2	2.4	16.0	373.3	309.1	679.8	7.5	54.9
100 to 249 employees	-	15	2.1	30.0	1.1	2.2	12.8	202.1	155.2	358.7	6.5	29.9
250 to 499 employees	-	3	(2.3)	(34.6)	(1.7)	(3.5)	(24.5)	(320.4)	(214.1)	(528.4)	(8.7)	(66.3)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	142	0.5	6.7	0.4	0.6	3.4	39.9	33.4	73.3	1.2	5.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2082	**Malt beverages:**										
	Entire industry	131	44.0	857.5	31.1	61.1	589.1	2 602.3	4 045.1	6 652.6	410.3
	Establishments with 75 percent specialization or more	123	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20821	Canned beer and ale case goods:										
	Establishments with this product class primary	45	28.5	560.7	19.8	38.4	379.0	1 675.3	2 660.1	4 345.5	198.6
	Establishments with 75 percent specialization or more in class	5	2.4	48.3	1.8	3.4	35.0	172.9	323.2	496.3	(D)
20822	Bottled beer and ale case goods:										
	Establishments with this product class primary	33	13.3	262.1	9.7	19.5	187.7	774.4	1 202.8	1 972.5	100.1
	Establishments with 75 percent specialization or more in class	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20824	Other malt beverages and brewing byproducts:										
	Establishments with this product class primary	12	2.0	31.0	1.5	2.8	20.3	143.7	188.5	312.1	6.8
	Establishments with 75 percent specialization or more in class	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2083	**Malt:**										
	Entire industry	40	1.6	27.4	1.2	2.5	20.0	101.4	377.7	499.3	39.6
	Establishments with 75 percent specialization or more	38	1.6	27.4	1.2	2.5	20.0	102.0	377.7	499.3	(D)
2084	**Wines, brandy, and brandy spirits:**										
	Entire industry	269	9.2	134.1	5.4	10.5	69.6	510.4	883.8	1 362.5	51.1
	Establishments with 75 percent specialization or more	254	8.8	129.2	5.2	10.0	66.8	492.3	874.6	1 328.1	50.3
2085	**Distilled liquor, except brandy:**										
	Entire industry	104	15.7	232.1	12.0	23.8	168.1	1 149.7	1 163.0	[1]2 296.1	36.3
	Establishments with 75 percent specialization or more	97	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20851	Distilled liquor, except brandy:										
	Establishments with this product class primary	9	1.1	14.5	0.8	1.6	10.8	25.6	86.7	[1]112.4	4.6
	Establishments with 75 percent specialization or more in class	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20853	Bottled liquor, except brandy:										
	Establishments with this product class primary	66	14.1	211.2	10.9	21.5	152.6	1 099.3	1 050.9	[1]2 133.6	30.9
	Establishments with 75 percent specialization or more in class	62	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2086	**Bottled and canned soft drinks:**										
	Entire industry	2 192	114.1	1 448.8	43.4	89.3	444.8	4 084.5	5 958.6	10 007.2	423.6
	Establishments with 75 percent specialization or more	2 125	111.7	1 415.8	42.1	86.0	429.6	3 904.0	5 692.3	9 559.4	416.7
2087	**Flavoring extracts and sirups, n.e.c.:**										
	Entire industry	368	10.5	149.1	6.3	12.9	77.1	1 452.6	1 069.0	2 511.3	33.1
	Establishments with 75 percent specialization or more	340	8.7	120.5	4.9	10.1	57.9	1 193.9	877.1	2 060.6	27.0
20871	Flavoring extracts, emulsions, and other liquid flavors:										
	Establishments with this product class primary	42	1.5	22.4	0.8	1.6	8.5	62.5	98.0	159.1	2.9
	Establishments with 75 percent specialization or more in class	33	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20872	Liquid beverage bases, not for use by bottlers:										
	Establishments with this product class primary	15	0.6	8.8	0.3	0.7	4.3	48.6	57.0	104.2	1.6
	Establishments with 75 percent specialization or more in class	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20873	Liquid beverage bases for use by bottlers:										
	Establishments with this product class primary	49	2.4	33.5	1.2	2.4	14.3	653.6	368.9	1 021.3	8.5
	Establishments with 75 percent specialization or more in class	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20874	Other flavoring agents, except chocolate sirups:										
	Establishments with this product class primary	65	4.3	63.0	3.0	6.3	40.3	578.5	452.3	1 024.2	16.1
	Establishments with 75 percent specialization or more in class	37	2.1	28.4	1.4	2.8	16.7	152.1	141.5	289.4	9.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2082	Malt beverages	1977.. 6,652.6	(D)	(D)	35.7	100	6,612.9	(D)	(D)	100
		1972.. 4,054.4	4,029.2	2.5	22.7	100	4,038.7	4,029.2	9.5	100
		1967.. 2,929.7	2,894.8	1.6	33.3	100	2,900.3	2,894.8	5.5	100
2083	Malt	1977.. 499.3	487.4	-	11.9	100	488.9	487.4	1.5	100
		1972.. 226.3	211.1	6.7	8.5	97	212.8	211.1	1.7	99
		1967.. 216.5	199.6	5.3	11.5	97	200.0	199.6	0.4	100
2084	Wines, brandy, and brandy spirits	1977.. 1,362.5	1,315.8	20.9	25.8	98	1,357.7	1,315.8	41.9	97
		1972.. 865.0	815.5	15.1	34.4	[1]98	851.0	815.5	35.5	[1]96
		1967.. 410.2	388.9	11.5	9.8	[1]97	414.9	388.9	26.0	[1]94
2085	Distilled liquor, except brandy[2]	1977.. 2,296.1	1,913.5	49.0	333.6	98	1,955.0	1,913.5	41.5	98
		1972.. 1,797.9	1,542.5	34.9	220.5	98	1,557.2	1,542.5	14.7	99
		1967.. 1,364.2	1,227.4	28.7	108.1	98	1,246.1	1,227.4	18.7	98
2086	Bottled and canned soft drinks	1977.. 10,007.2	8,255.1	199.9	1,552.2	98	8,503.6	8,255.1	248.4	97
		1972.. 5,453.8	4,657.4	81.1	715.3	98	4,807.2	4,657.4	149.8	97
		1967.. 3,173.2	2,887.0	51.5	234.6	98	2,996.8	2,887.0	109.8	96
2087	Flavoring extracts and sirups, n.e.c.	1977.. 2,511.3	2,255.5	203.7	52.1	92	2,620.7	2,255.5	365.2	86
		1972.. 1,472.0	1,245.2	188.7	38.1	87	1,452.9	1,245.2	207.7	86
		1967.. 1,009.1	879.6	55.8	73.8	94	1,037.9	879.6	158.3	85

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified.

[1]Percentages based on figures containing significant duplication.

[2]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Malt beverages (SIC 2082)	Malt (SIC 2083)	Wines, brandy, and brandy spirits (SIC 2084)	Distilled liquor, except brandy (SIC 2085)	Bottled and canned soft drinks (SIC 2086)	Flavoring extracts and sirups, n.e.c. (SIC 2087)	Other industries
	Total	(X)	6,652.6	499.3	1,362.5	[1]2,296.1	10,007.2	2,511.3	(X)
	Primary products	(X)	(D)	487.4	1,315.8	1,913.5	8,255.1	2,255.5	(X)
	Secondary products	(X)	(D)	-	20.9	49.0	199.9	203.7	(X)
	Miscellaneous receipts	(X)	35.7	11.9	25.8	333.6	1,552.2	52.1	(X)
2082-	Malt beverages	6,612.9	(D)	-	-	-	(D)	-	(D)
20821	Canned beer and ale case goods	3,548.9	3,548.9	-	-	-	-	-	-
20822	Bottled beer and ale case goods	2,263.1	2,263.1	-	-	-	-	-	-
20823	Beer and ale in barrels and kegs	398.1	(D)	-	-	-	(D)	-	-
20824	Other malt beverages and brewing byproducts	379.7	379.7	-	-	-	-	-	-
20820	Malt beverages, n.s.k	23.1	(D)	-	-	-	-	-	(D)
20830	Malt and malt byproducts	488.9	(D)	487.4	-	-	-	-	(D)
20840	Wines, brandy, and brandy spirits	1,357.7	-	-	1,315.8	32.9	-	(D)	(D)
2085-	Distilled liquor, except brandy	1,955.0	-	-	(D)	1,913.5	(D)	-	(D)
20851	Distilled liquor, except brandy	205.7	-	-	(D)	164.4	(D)	-	(D)
20853	Bottled liquor, except brandy	1,703.3	-	-	(D)	(D)	-	-	-
20850	Distilled liquor, except brandy, n.s.k	46.0	-	-	-	(D)	-	-	(D)
20860	Bottled and canned soft drinks	8,503.6	(D)	-	-	-	8,255.1	(D)	241.7
2087-	Flavoring extracts and sirups, n.e.c.	2,620.7	(D)	-	(D)	(D)	(D)	2,255.5	262.4
20871	Flavoring extracts, emulsions, and other liquid flavors	226.4	(D)	-	-	-	(D)	143.9	78.7
20872	Liquid beverage bases, not for use by bottlers	213.0	-	-	-	(D)	(D)	192.1	16.0
20873	Liquid beverage bases for use by bottlers	919.6	-	-	-	-	70.5	829.9	19.2
20874	Other flavoring agents, except chocolate sirups	1,062.7	(D)	-	(D)	-	7.1	891.2	148.1
20870	Flavoring extracts and sirups, n.e.c., n.s.k	199.0	-	-	-	-	-	198.4	.5
	Other shipments by 4-digit product group:								
2033-	Canned fruits and vegetables	(X)	-	-	(D)	-	(D)	(D)	(X)
2034-	Dehydrated fruits, vegetables, and soups	(X)	-	-	-	-	-	(D)	(X)
2035-	Pickles, sauces, and salad dressings	(X)	-	-	-	-	(D)	(D)	(X)
2037-	Frozen fruits and vegetables	(X)	-	-	-	-	(D)	-	(X)
2041-	Flour and other grain mill products	(X)	-	-	-	-	-	(D)	(X)
2045-	Blended and prepared flour	(X)	-	-	-	-	-	(D)	(X)
2046-	Wet corn milling products	(X)	-	-	-	(D)	-	-	(X)
2065-	Confectionery products	(X)	-	-	-	-	-	(D)	(X)
2099-	Food preparations, n.e.c.	(X)	(D)	-	-	-	(D)	118.6	(X)
2843-	Surface active agents	(X)	-	-	-	-	-	5.9	(X)
2869-	Industrial organic chemicals, n.e.c.	(X)	-	-	-	-	-	(D)	(X)
2899-	Chemical preparations, n.e.c.	(X)	-	-	-	-	(D)	(D)	(X)
3411-	Metal cans	(X)	-	-	-	-	(D)	-	(X)
	Miscellaneous receipts:								
93000 00	Contract work	(X)	(D)	(D)	(D)	26.4	45.3	5.2	(X)
99980 98	Other miscellaneous receipts	(X)	(D)	(D)	(D)	3.6	60.7	.8	(X)
99989 00	Resales	(X)	(D)	(D)	22.9	303.6	1,446.2	46.1	(X)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2085-	2046 Wet corn milling	(D)
	2869 Industrial organic chemicals, n.e.c.	(D)
2086-	2026 Fluid milk	(D)
	2032 Canned specialties	(D)
	2033 Canned fruits and vegetables	(D)
	2037 Frozen fruits and vegetables	(D)
2087-	2033 Canned fruits and vegetables	(D)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products--Con.	
2087-	2034 Dehydrated, fruits, vegetables, soups	(D)
	2035 Pickles, sauces, and salad dressings	(D)
	2043 Cereal and breakfast foods	(D)
	2047 Dog, cat, and other pet food	(D)
	2095 Roasted coffee	(D)
	2099 Food preparations, n.e.c.	(D)
	2844 Toilet preparations	23.2
	2899 Chemical preparations, n.e.c.	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

[1]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972**

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value[3] (million dollars)	Quantity	Value (million dollars)
2082- --	MALT BEVERAGES						
	Total	...	(NA)	(X)	6,612.9	(X)	4,038.7
20821 --	Canned beer and ale case goods	1,000 bbl	(NA)	81,378	3,548.9	66,775	2,206.3
	Beer:						
20821 14	12-ounce cans		38	68,967	3,029.6	52,484	1,745.7
20821 15	16-ounce cans		18	8,936	355.6	10,389	326.4
20821 18	Other can sizes		12	3,064	147.6	3,645	126.0
20821 19	Ale		5	411	16.1	257	8.2
20822 --	Bottled beer and ale case goods		(NA)	52,966	2,263.1	47,612	1,416.6
	Beer:						
	Returnable bottles:						
20822 22	Under 12-ounce bottles		18	2,098	78.5	4,910	156.4
20822 24	12-ounce bottles		36	13,949	541.8	16,466	488.7
20822 27	32-ounce bottles		15	1,118	29.1	1,256	30.5
20822 28	Other		16	1,282	39.8	1,510	29.4
	Nonreturnable bottles:						
20822 32	Under 12-ounce bottles		18	4,924	282.1	1,450	49.2
20822 34	12-ounce bottles		31	24,958	1,120.9	16,653	513.6
20822 37	32-ounce bottles		24	3,165	117.9	3,397	95.1
20822 38	Other bottle sizes		10	701	26.7	1,481	39.4
20822 41	Ale		5	771	26.3	489	14.3
20823 --	Barrels and kegs		(NA)	17,609	398.1	16,409	264.1
	Beer:						
20823 61	One-half barrel size		38	16,368	366.9	15,091	240.6
20823 62	Other barrel sizes		23	1,241	31.2	1,212	21.4
20823 63	Ale		3			106	2.1
20824 --	All other fermented malt beverages		(NA)	(X)	379.7	3,909	116.6
20824 51	Malt liquors, in both cases and bottles		8	4,153	214.3	2,230	75.4
20824 71	Porter, stout, and other fermented malt beverages (cans, bottles, barrels, and kegs)		2	(D)	(D)		
20824 81	Bulk transfers of malt beverages to other establishments of same company	1,000 bbl	1	(D)	(D)	(D)	(D)
20824 91	Malt extract	1,000 lb	3	(D)	(D)	(D)	(D)
	Brewers spent grains:						
20824 93	Dry	1,000 s. tons	15	389	46.2	424	24.3
20824 95	Wet (dry weight equivalent or actual weight of dry grains employed in manufacture)	1,000 s. tons	19	775	15.2	925	6.4
20820 00	Malt beverages and brewing byproducts, n.s.k., typically for establishments with 10 employees or more (see note)	...	(NA)	(X)	9.9	(X)	32.4
20820 02	Malt beverages and brewing byproducts, n.s.k., typically for establishments with less than 10 employees (see note)	...	(NA)	(X)	13.2	(X)	2.7
2083- --	MALT						
	Total	Million lb	(NA)	4,793.5	488.9	4,537.4	212.8
20830 --	Malt and malt byproducts:						
20830 21	Barley, rye, wheat malt, and malt sprouts (dry weight equivalent, screenings, chaff, and skimmings)		23	*4,772.6	486.7	4,533.6	212.6
20830 00	Malt and malt byproducts, n.s.k., typically for establishments with 5 employees or more (see note)		-	-	-	-	-
20830 02	Malt and malt byproducts, n.s.k., typically for establishments with less than 5 employees (see note)	Million lb	(NA)	[4]20.9	2.2	3.8	.2

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value[3] (million dollars)	Quantity	Value (million dollars)
	WINES, BRANDY, AND BRANDY SPIRITS						
2084- --	Total		(NA)	(X)	1,357.7	(X)	851.0
20840 --	Wines, brandy, and brandy spirits:						
	Grape wines, 14 percent or less	Mil. wine gal.	(NA)	291.7	732.9	194.4	349.1
20840 12	White		45	120.8	308.9	94.2	138.7
20840 14	Red		46	102.6	269.2	74.6	155.0
20840 16	Rose		33	68.3	154.8	25.6	55.4
20840 19	Other fruit and berry wines, 14 percent or less		11	32.8	76.7	63.7	118.4
	Dessert wines, except specialties:						
20840 21	Grape wines, all types		32	96.1	186.5	93.8	161.8
20840 29	Other dessert wines		3			7.7	14.8
20840 31	Sparkling wines, natural and carbonated		19	19.0	89.1	21.6	76.1
	Specialty wines:						
20840 41	Vermouth		11	5.9	15.7	(S)	6.7
20840 43	Other specialty wines	Mil. wine gal.	11	19.0	48.0	6.3	8.3
20840 65	Beverage brandy, neutral fruit spirits, and neutral brandy	Mil. tax gal.	24	36.6	106.0	26.5	67.8
20840 81	Wine removed from fermenters	Mil. wine gal.	(NA)	378.1	(X)	99.0	(X)
20840 85	Brandy and spirits removed from receiving tanks	Mil. tax gal.	(NA)	16.4	(X)	10.9	(X)
20840 00	Wines, brandy, and brandy spirits, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	51.1	(X)	35.3
20840 02	Wines, brandy, and brandy spirits, n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	51.7	(X)	12.7
	DISTILLED LIQUOR, EXCEPT BRANDY[5]						
2085- --	Total		(NA)	(X)	1,955.0	(X)	1,557.2
20851 --	Distilled liquor, except brandy		(NA)	(X)	205.7	(X)	153.7
	Whiskey (raw):						
20851 13	Bourbon and rye	1,000 proof gallons	17	47,279	74.8	83,664	85.7
20851 19	Other		5	127,324	86.1	30,679	10.2
20851 31	Spirits, except fruit		7			69,968	22.4
20851 41	Rum		1				
20851 43	Vodka		4	25,814	16.5	40,050	15.6
20851 47	Other distilled liquors, including gin	1,000 proof gallons.	8				
20851 65	Distillers' dried grains, dark and light, and dried solubles	1,000 s. tons.	14	185	19.9	200	11.8
20851 00	Distilled liquor, except brandy, n.s.k	1,000 proof gallons.	(NA)	(X)	8.4	(X)	8.0
20853 --	Bottled liquor, except brandy		(NA)	(X)	1,703.3	(X)	1,396.3
	Rectified products:						
	Whiskey:						
20853 12	Blends of whiskey	1,000 wine gal.	11	31,293	185.7	r7,206	r19.1
20853 15	Blends with neutral spirits		15	20,558	94.2	r65,551	r272.8
20853 19	Other whiskey		4	1,751	8.5		
20853 21	Gin		4	22,237	157.7	1,942	9.1
20853 25	Cordials, liqueurs		20			15,494	94.5
20853 27	Cocktails and similar compounds		8	9,926	63.4	3,457	21.4
20853 33	Vodka		14	18,977	65.1	18,610	45.0
20853 37	Rum		6	2,716	12.3	2,737	14.1
20853 39	Other rectified products		3				
	Unrectified products:						
20853 51	Whiskey		30	94,839	628.8	96,941	556.4
20853 55	Gin		26	30,364	118.1	33,997	89.4
20853 57	Vodka		20	48,857	242.9	40,898	138.1
20853 58	Rum		11	2,474	11.6	14,073	88.8
20853 59	Other unrectified products[6]	1,000 wine gal.	21	18,208	89.5		
	Bottled in bond:						
20853 63	Whiskey	1,000 proof gallons.	7	1,684	9.6	7,661	35.3
20853 81	Other	1,000 proof gallons.	(NA)	-	-	542	3.2
20853 00	Bottled liquor, except brandy, n.s.k		(NA)	(X)	15.9	(X)	9.1
20850 00	Distilled liquor, except brandy, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	24.9	(X)	5.0
20850 02	Distilled liquor, except brandy, n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	21.1	(X)	2.2

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	BOTTLED AND CANNED SOFT DRINKS						
2086- --	Total	1,000 cases	(NA)	[7]2,752,862	8,503.6	[7]2,222,744	4,807.2
20860 --	Bottled and canned soft drinks:						
	Canned carbonated soft drinks (10 and 12 ounce cans)	1,000 cases of 24.	(NA)	800,690	2,689.0	498,175	1,148.6
	Nondietetics:						
20860 51	Drinks containing cola extract		320	352,776	1,199.5	223,852	528.9
20860 52	Orange		130	34,440	113.7	31,740	68.2
20860 53	Lemon, lime, and lemon and lime combinations		212	85,112	288.0	44,902	108.0
20860 55	Ginger ale		53	10,740	36.0	16,183	34.5
20860 56	Grape		104	*31,073	100.8	22,481	47.6
20860 57	Other carbonated flavors, including carbonated water and club soda		234	146,506	471.2	95,373	206.9
	Low calorie:						
20860 58	Drinks containing cola extract		162	65,246	223.9	30,711	76.8
20860 59	Other carbonated flavors, including carbonated water and club soda	1,000 cases of 24.	145	74,797	255.9	32,933	77.7
	Bottled carbonated soft drinks, all sizes	1,000 cases	(NA)	1,200,443	3,707.0	1,218,752	2,726.2
	Nondietetics:						
20860 X1	Drinks containing cola extract		(NA)	502,164	1,702.0	671,284	1,479.9
20860 X2	Orange		(NA)	27,244	89.3	41,998	90.4
20860 X3	Lemon, lime, and lemon and lime combinations		(NA)	96,456	322.5	117,643	282.0
20860 X4	Root beer and sarsaparilla		(NA)				
20860 X5	Ginger ale		(NA)	69,889	233.3	97,917	223.1
20860 X6	Grape		(NA)				
20860 X7	Other carbonated flavors, including carbonated water and club soda		(NA)	[8]350,632	872.7	[8]180,223	389.0
	Low calorie:						
20860 X8	Drinks containing cola extract		(NA)	81,775	260.7	65,210	155.3
20860 X9	Other carbonated flavors, including carbonated water and club soda	1,000 cases	(NA)	72,283	226.5	44,477	106.5
	Bottled carbonated soft drinks, by size:						
	6 to 9 ounce bottled carbonated soft drinks	1,000 cases of 24.	(NA)	57,805	163.4	126,258	237.2
	Nondietetics:						
20860 01	Drinks containing cola extract		192	44,619	128.1	94,090	174.4
20860 02	Orange		9	945	2.8	2,210	4.3
20860 03	Lemon, lime, and lemon and lime combinations		27	*5,691	13.9	9,641	18.5
20860 04	Root beer and sarsaparilla		3	448	1.3	1,158	2.0
20860 05	Ginger ale		8	*1,452	4.0	2,677	5.8
20860 06	Grape		3	363	1.1	1,290	2.4
20860 07	Other carbonated flavors, including carbonated water and club soda		19	*3,230	8.8	10,194	19.2
	Low calorie:						
20860 08	Drinks containing cola extract		6	643	2.0	2,640	5.2
20860 09	Other carbonated flavors, including carbonated water and club soda		3	414	1.4	2,358	5.4
	10 and 12 ounce bottled carbonated soft drinks		(NA)	296,748	941.3	484,127	1,005.9
	Nondietetics:						
20860 11	Drinks containing cola extract		464	150,855	476.2	266,433	536.8
20860 12	Orange		93	*12,807	40.9	22,221	46.5
20860 13	Lemon, lime, and lemon and lime combinations		185	34,042	107.4	54,417	120.5
20860 14	Root beer and sarsaparilla		51	*9,355	28.9	16,120	33.7
20860 15	Ginger ale		41	6,106	21.0	8,464	20.3
20860 16	Grape		42	(S)	31.3	11,704	24.2
20860 17	Other carbonated flavors, including carbonated water and club soda		217	42,316	135.3	60,889	127.6
	Low calorie:						
20860 18	Drinks containing cola extract		99	17,689	54.5	26,045	57.2
20860 19	Other carbonated flavors, including carbonated water and club soda		80	13,547	45.8	17,834	39.1
	16 ounce bottled carbonated soft drinks		(NA)	313,401	1,151.7	306,198	761.3
	Nondietetics:						
20860 21	Drinks containing cola extract		444	195,687	724.0	207,870	514.5
20860 22	Orange		37	*6,134	23.0	7,208	16.9
20860 23	Lemon, lime, and lemon and lime combinations		117	27,531	98.4	22,858	60.3
20860 24	Root beer, sarsaparilla, ginger ale		51	10,404	39.4	7,131	17.8
20860 26	Grape		16	*3,245	12.3	4,227	9.9
20860 27	Other carbonated flavors, including carbonated water and club soda		108	21,564	78.8	20,424	47.3
	Low calorie:						
20860 28	Drinks containing cola extract		121	29,462	107.0	22,900	58.6
20860 29	Other carbonated flavors, including carbonated water and club soda	1,000 cases of 24.	88	*19,374	68.8	13,580	36.0

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	BOTTLED AND CANNED SOFT DRINKS--Con.						
20860 --	Bottled and canned soft drinks--Con.						
	Bottled carbonated soft drinks, by size--Con.						
	24 to 32 ounce bottled carbonated soft drinks	1,000 cases of 12.	(NA)	250,386	835.7	252,409	618.3
	Nondietetics:						
20860 31	Drinks containing cola extract		355	111,003	373.7	102,891	254.2
20860 32	Orange		41	*7,358	22.6	10,359	22.7
20860 33	Lemon, lime, and lemon and lime combinations		169	29,192	102.8	30,727	82.7
20860 34	Root beer and sarsaparilla		37	6,940	19.9	11,728	26.4
20860 36	Ginger ale and grape		81	21,545	74.1	33,418	80.6
20860 37	Other carbonated flavors, including carbonated water and club soda		173	44,276	142.3	48,774	114.9
	Low calorie:						
20860 38	Drinks containing cola extract		77	11,717	39.2	6,157	16.2
20860 39	Other carbonated flavors, including carbonated water and club soda	1,000 cases of 12.	89	18,355	61.1	8,355	20.6
	All other size bottled carbonated soft drinks	1,000 cases	(NA)	282,103	614.9	49,760	103.5
20860 41	Nondietetics		271	239,246	507.5	39,942	80.0
	Low calorie:						
20860 45	Drinks containing cola extract		65	22,264	58.0	7,468	18.1
20860 47	Other carbonated flavors, including carbonated water and club soda	1,000 cases	51	20,593	49.4	2,350	5.4
	Soft drinks in bulk, including premix for vending machines and postmix for vending machines operated by own company--postmix sirup reported as converted to soft drink gallons	1,000 gal	(NA)	274,855	342.9	197,482	190.8
20860 81	Drinks containing cola extract		383	175,597	215.8	126,538	121.0
20860 87	Other flavors	1,000 gal	240	99,258	127.1	70,944	69.8
	Fruit drinks and ades (with added sugar, citric acid, etc.)	1,000 cases	(NA)	114,393	402.4	83,481	255.6
	40.1 ounce to 60 ounce (no. 3 cylinder; cases of 12)		(NA)	53,612	204.8	42,062	129.7
20860 92	Orange		30	12,910	55.3	13,990	31.3
20860 94	Other flavors		34	40,702	149.5	28,072	98.4
	Other sizes		(NA)	60,781	197.6	41,419	125.9
20860 95	Orange		72	26,782	79.1	15,466	49.0
20860 97	Other flavors		90	33,999	118.5	25,953	76.9
20860 00	Bottled and canned soft drinks, n.s.k., typically for establishments with 20 employees or more (see note)		(NA)	[9]385,800	1,157.4	[9]192,560	416.2
20860 99	Bottled and canned soft drinks, n.s.k., typically for establishments with less than 20 employees (see note)	1,000 cases	436	[9]68,300	204.9	[9]32,294	69.8
	FLAVORING EXTRACTS AND SIRUPS, N.E.C.						
2087- --	Total		(NA)	(X)	2,620.7	(X)	1,452.9
20871 --	Flavoring extracts, emulsions, and other liquid flavors		(NA)	(X)	226.4	(X)	119.0
	Natural or true:						
20871 11	In containers of 8 ounces or less	Million gal	14	(NA)	30.5	(NA)	18.8
20871 15	In containers of more than 8 ounces		38	(NA)	84.4	(NA)	46.1
20871 53	Imitation	Million gal	38	(NA)	66.0	(NA)	31.6
20871 00	Flavoring extracts, emulsions, and other liquid flavors, n.s.k.		(NA)	(X)	45.5	(X)	22.5
20872 --	Liquid beverage bases, not for use by soft drink bottlers	Million gal	(X)	98.3	213.0	56.5	97.9
20872 15	Cocktail mixes		7	4.4	22.7	2.5	9.5
	Other liquid beverage bases:						
20872 23	Containing kola extract or flavoring		4	*.8	2.2	26.0	28.2
20872 25	Other flavors		17	93.1	180.8	28.0	58.3
20872 00	Liquid beverage bases, n.s.k.		(NA)	(X)	7.4	(X)	1.9
20873 --	Liquid beverage bases, for use by soft drink bottlers		(X)	457.8	919.6	337.3	637.1
20873 13	Containing kola extract or flavoring		36	365.5	700.1		
20873 39	Other flavors		30	92.4	186.7	337.3	637.1
20873 00	Flavoring sirups for use by soft drink bottlers, n.s.k.	Million gal	(NA)	(X)	32.8		

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	FLAVORING EXTRACTS AND SIRUPS, N.E.C.--Con.						
20874 --	Other flavoring agents, except chocolate sirups	.....	(X)	(X)	1,062.7	(X)	527.0
	Flavoring powders and tablets:						
20874 35	Soft drink (effervescent and noneffervescent)	Million lb....	11	385.1	377.1	94.5	91.6
20874 36	Other flavoring powders and tablets					224.1	128.3
20874 38	Dry mix cocktails		21	145.9	158.1		
20874 41	Flavoring pastes	Million lb....				19.7	9.1
20874 59	Flavoring sirups for fountain, ice cream, home beverage use, all flavors	Million gal...	40	151.1	396.8	114.1	219.9
20874 61	Fruit, crushed or whole, for fountain and ice cream use	Million gal...	11	(S)	17.0	2.9	10.3
20874 71	Food colorings	.....	15	(X)	25.6	(X)	17.2
20874 81	Concentrated fruit juice products (not frozen, not hot-pack), including those for fountain use	Million gal...	21	*20.5	47.7	8.1	22.4
20874 00	Other flavoring agents, except chocolate sirups, n.s.k.	.....	(NA)	(X)	40.4	(X)	28.2
20870 00	Flavoring extract and flavoring sirups, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	125.7	(X)	49.2
20870 02	Flavoring extract and flavoring sirups, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	73.3	(X)	22.7

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

– Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]Excludes excise taxes.

[4]Quantity estimated, based on quantity-value relationship for malt and malt by-products.

[5]Data for quantity and value represent production rather than shipments.

[6]Includes an undetermined amount of Canadian and light whiskey.

[7]Includes estimate for number of cases sold in bulk assuming 1.5 gallons equals one case.

[8]Includes product code 20860 41, nondietetic bottled carbonated soft drinks, all other sizes.

[9]Quantity was estimated based on quantity-value relationship for all other products in this industry.

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20821, CANNED BEER AND ALE CASE GOODS		
United States	3,548.9	2,206.3
Middle Atlantic Division:		
New York	193.6	386.0
New Jersey	149.2	145.2
Pennsylvania	90.9	42.3
East North Central Division:		
Wisconsin	461.9	207.1
West South Central Division:		
Texas	385.4	174.9
Pacific Division:		
California	263.6	GG
20822, BOTTLED BEER AND ALE CASE GOODS		
United States	2,263.1	1,416.6
Middle Atlantic Division:		
New York	254.2	157.7
Pennsylvania	137.0	97.7
East North Central Division:		
Ohio	109.7	41.0
Wisconsin	391.7	194.8
West North Central Division:		
Minnesota	28.8	GG
West South Central Division:		
Texas	220.1	77.3
Pacific Division:		
Washington	80.9	GG
California	174.4	71.0
20823, BEER AND ALE IN BARRELS AND KEGS		
United States	398.1	264.1
Middle Atlantic Division:		
New York	39.6	26.9
Pennsylvania	31.9	FF
East North Central Division:		
Ohio	27.1	13.4
Wisconsin	56.7	38.7
West South Central Division:		
Texas	19.5	10.0
Pacific Division:		
Washington	15.8	CC
California	27.5	21.3
20824, OTHER MALT BEVERAGES AND BREWING BYPRODUCTS		
United States	379.7	116.6
East North Central Division:		
Wisconsin	52.4	17.2
West South Central Division:		
Texas	19.9	5.2
20851, DISTILLED LIQUOR, EXCEPT BRANDY[1]		
United States	205.7	153.7
East South Central Division:		
Kentucky	76.8	GG
20853, BOTTLED LIQUOR, EXCEPT BRANDY[1]		
United States	1,703.3	1,396.3
New England Division:		
Massachusetts	45.5	FF
20853, BOTTLED LIQUOR, EXCEPT BRANDY[1]--Con.		
Middle Atlantic Division:		
New Jersey	88.8	FF
Pennsylvania	80.8	66.2
East North Central Division:		
Illinois	137.7	137.6
West North Central Division:		
Missouri	47.2	FF
East South Central Division:		
Kentucky	422.8	GG
Pacific Division:		
California	152.1	GG
20871, FLAVORING EXTRACTS, EMULSIONS, AND OTHER LIQUID FLAVORS		
United States	226.4	119.0
Middle Atlantic Division:		
New York	11.5	18.2
New Jersey	41.2	18.4
Pennsylvania	13.8	5.6
East North Central Division:		
Ohio	9.2	6.0
Illinois	41.8	13.0
South Atlantic Division:		
Maryland	10.3	10.5
West South Central Division:		
Texas	2.4	BB
Pacific Division:		
California	29.0	12.4
20872, LIQUID BEVERAGE BASES, NOT FOR USE BY BOTTLERS		
United States	213.0	97.9
East North Central Division:		
Illinois	51.2	FF
Pacific Division:		
California	26.1	EE
20873, LIQUID BEVERAGE BASES FOR USE BY BOTTLERS		
United States	919.6	637.1
Middle Atlantic Division:		
New Jersey	33.1	FF
West South Central Division:		
Texas	173.2	GG
Pacific Division:		
California	60.2	GG
20874, OTHER FLAVORING AGENTS, EXCEPT CHOCOLATE SIRUPS		
United States	1,062.7	527.0
New England Division:		
Massachusetts	19.3	14.4
Middle Atlantic Division:		
New York	27.0	22.6
New Jersey	72.3	40.1
Pennsylvania	6.2	4.6
East North Central Division:		
Ohio	63.3	FF
Illinois	337.5	154.8
Wisconsin	6.9	2.7
West North Central Division:		
Missouri	34.7	20.2
Pacific Division:		
California	100.6	54.2

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.

[1]Value of production rather than value of shipments.

Table 6c. Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2082-	Malt beverages	6,612.9	5,986.3	5,615.1	5,018.0	4,341.6	4,038.7	2,900.3	2,282.0
20821	Canned beer and ale case goods	3,548.9	3,340.5	3,090.6	2,804.4	2,382.6	2,206.3	(NA)	(NA)
20822	Bottled beer and ale case goods	2,263.1	2,010.8	1,923.8	1,667.4	1,456.2	1,416.6	(NA)	(NA)
20823	Beer and ale in barrels and kegs	398.1	410.3	392.6	353.8	298.3	264.1	(NA)	(NA)
20824	Other malt beverages and brewing byproducts	379.7	(235.5)	218.7	202.3	139.4	116.6	(NA)	(NA)
20820	Malt beverages, n.s.k.	23.1	(S)	(S)	(S)	65.1	35.1	(NA)	(NA)
20830	Malt and malt byproducts	488.9	507.5	583.1	473.4	268.7	212.8	200.0	185.1
20840	Wines, brandy, and brandy spirits	1,357.7	1,206.3	1,193.2	1,237.6	980.3	851.0	414.9	352.6
2085-	Distilled liquor, except brandy[2]	1,955.0	1,831.8	1,785.1	1,665.0	1,575.7	1,557.2	1,246.1	959.9
20851	Distilled liquor, except brandy[2]	205.7	194.1	206.6	185.7	176.9	153.7	202.3	163.0
20853	Bottled liquor, except brandy[2]	1,703.3	1,638.6	1,579.4	1,461.1	1,390.8	1,396.3	1,043.8	796.6
20850	Distilled liquor, except brandy, n.s.k.[2]	46.0	(S)	(S)	(18.2)	8.0	7.2	-	.4
20860	Bottled and canned soft drinks	8,503.6	7,562.4	7,452.3	5,901.4	4,961.2	4,807.2	2,996.8	2,136.1
2087-	Flavoring extracts and sirups, n.e.c.	2,620.7	2,390.2	2,483.9	2,194.7	1,589.4	1,452.9	1,037.9	790.3
20871	Flavoring extracts, emulsions, and other liquid flavors	226.4	234.5	205.5	182.4	147.1	119.0	95.0	99.3
20872	Liquid beverage bases, not for use by bottlers	213.0	232.4	213.6	199.2	163.2	97.9	129.9	76.1
20873	Liquid beverage bases for use by bottlers	919.6	809.7	894.3	815.3	642.1	637.1	353.0	298.7
20874	Other flavoring agents, except chocolate sirups	1,062.7	1,124.0	1,181.1	939.0	583.3	527.0	410.6	299.1
20870	Flavoring extracts and sirups, n.e.c., n.s.k.	199.0	(S)	(S)	(58.8)	53.7	71.9	49.4	17.1

- Represents zero. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]Data represent value of production rather than value of shipments.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2082, MALT BEVERAGES					
	Materials, ingredients, containers, and supplies	.....	(X)	3,877.2	(X)	2,006.0
011913	Barley	Million bu.....	(D)	(D)	(D)	(D)
011521	Corn (purchased and grain)	Million bu.....	17.1	56.0	30.1	49.4
206011	Sugar (cane and beet) in terms of sugar solids	Million lb.....	(D)	(D)	(D)	(D)
208301	Malt	1,000 cwt.....	42,706.3	533.9	34,848.3	204.8
	Containers:					
341101	Metal cans	.....	(X)	1,659.8		
322103	Glass containers, excluding those capitalized and those with paperboard wrapping.	.....	(X)	235.7		
322104	Glass containers with paperboard wrapping	.....	(X)	532.5	(X)	1,704.9
265001	Paperboard boxes and containers	.....	(X)	223.8		
970099	All other materials and components, parts, containers, and supplies	.....	(X)	547.3		
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	52.6	(X)	19.2
	INDUSTRY 2083, MALT					
	Materials, ingredients, containers, and supplies	.....	(NA)	344.9	(NA)	154.3
011913	Barley	Million bu.....	118.2	332.5	99.1	143.8
208301	Malt	1,000 cwt.....	(NA)	(3)	477.9	2.7
970099	All other materials and components, parts, containers, and supplies	.....	(X)	310.7	(X)	7.8
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	1.7	(X)	-
	INDUSTRY 2084, WINES, BRANDY, AND BRANDY SPIRITS					
	Materials, ingredients, containers, and supplies	.....	(X)	863.3	(X)	505.9
017211	Grapes	1,000 s. tons..	*2,171.3	288.4	1,956.9	167.1
208401	Wines purchased for blending	Mil. wine gal..	162.8	150.1	117.8	104.7
322105	Glass containers used for wine and brandy	1,000 gross....	*8,367.3	197.6	6,279.5	89.2
265021	Paperboard boxes and containers used for wine and brandy	.....	(X)	15.6	(X)	119.5
970099	All other materials and components, parts, containers, and supplies	.....	(X)	160.8		
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	50.8	(X)	25.4
	INDUSTRY 2085, DISTILLED LIQUOR, EXCEPT BRANDY					
	Materials, ingredients, containers, and supplies	.....	(NA)	924.2	(NA)	621.8
	Materials used in distilling:					
011521	Corn	Million bu.....	19.1	49.0	23.5	35.0
011951	Rye	Million bu.....	1.8	6.5	2.9	4.2
208301	Malt	1,000 cwt.....	863.9	9.5	1,329.7	7.3
244950	Cooperage, including new and recoopered used	1,000 units....	1,051.9	45.9	(X)	51.4
970092	All other materials, ingredients, containers, and supplies used in distilling operations (cooperage, etc.)	.....	(X)	26.7		
	Materials used in bottling:					
208511	Neutral spirits	Million tax gal	120.5	98.8	175.2	71.3
208513	Aged whiskey	Million tax gal	128.3	223.3	107.8	172.5
322106	Glass containers used for distilled liquor	1,000 gross....	10,913.3	251.2	12,046.5	169.5
265022	Paperboard boxes and containers used for distilled liquor	.....	(X)	12.5	(X)	93.4
970093	All other materials, ingredients, containers, and supplies used in bottling operations (flavors, closures, etc.)	.....	(X)	150.8		
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	50.0	(X)	17.2
	INDUSTRY 2086, BOTTLED AND CANNED SOFT DRINKS					
	Materials, ingredients, containers, and supplies	.....	(NA)	4,787.1	(NA)	2,573.5
206011	Sugar (cane and beet) in terms of sugar solids	1,000 cwt.....	*30,752.0	473.7	32,475.7	341.0
203348	Concentrated fruit juices	Million gal....	24.3	73.8	(NA)	41.8
208731	Flavoring sirups	Million gal....	**244.3	578.7	226.6	399.4
208701	Other flavors, including beverage bases	.....	(X)	277.1	(X)	167.5
	Containers:					
341101	Metal cans	.....	(X)	1,221.7		
322103	Glass containers, excluding those capitalized and those with paperboard wrapping.	.....	(X)	405.0	(4)	(4)
322104	Glass containers with paperboard wrapping	.....	(X)	335.9		
265001	Paperboard boxes and containers	.....	(X)	129.7		
970099	All other materials and components, parts, containers, and supplies	.....	(X)	561.0	(X)	41,329.2
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	730.5	(X)	294.6

See footnotes at end of table.

Table 7. Materials Consumed by Kind: 1977 and 1972 – Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2087, FLAVORING EXTRACTS AND SYRUPS, N.E.C.					
	Materials, ingredients, containers, and supplies	.....	(X)	982.8	(X)	572.7
206011	Sugar (cane and beet) in terms of sugar solids	1,000 cwt.....	23,690.7	361.6	22,285.8	251.8
203348	Concentrated fruit juices	Million gal.....	*3.6	*17.1	4.7	15.8
208701	Other flavors, including beverage bases	↕	(X)	117.7	(X)	58.8
208731	Flavoring syrups	Million gal.....	(S)	14.0	4.8	7.7
970099	All other materials and components, parts, containers, and supplies	.....	(X)	375.2	(X)	202.0
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	97.2	(X)	36.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publications standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[3]For 1977, data for material code 208301 included with material code 970099.

[4]For 1972, material codes 341101, 322103, 322104, and 265001 were included with material code 970099.

Table 8. Employees Engaged in Transportation (Industries 2082 and 2086): 1977

Item	Total		Employees of establishments reporting transportation employees			Employees of establishments not reporting transportation employees (1,000)	Coverage ratio C/A	Ratio of employees transportation activity to total E/C
				Engaged in transportation				
	Employees (1,000)	Payroll (millions)	Total (1,000)	Employees (1,000)	Payroll (millions)			
	A	B	C	D	E	F	G	H
Malt beverages	44.0	857.5	13.8	1.3	21.9	30.2	.31	.09
Bottled and canned soft drinks	114.1	1,448.8	83.1	29.4	402.9	31.0	.73	.35

Note: Establishments in selected industries were instructed to report number of employees, included in total employment, that were engaged in delivery of products sold by that establishment and utilized as a separate work force. Coverage Ratio (column G) indicates proportion of industry employment represented by establishments that reported transportation employees. Coverage Ratio excludes: (a) delivery workers not employed by the establishment (e.g., working under contract or provided by another establishment of the company); (b) establishments that reported having no transportation employees; (c) establishments that did not respond to the inquiry, and (d) establishments that were not mailed a form, orfrom which a form had not been received at the time data were tabulated.

Miscellaneous Foods and Kindred Products

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DESCRIPTION OF INDUSTRIES

MISCELLANEOUS FOODS AND KINDRED PRODUCTS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2091	Canned and Cured Seafoods
2092	Fresh or Frozen Packaged Fish
2095	Roasted Coffee
2097	Manufactured Ice
2098	Macaroni and Spaghetti
2099	Food Preparations, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2091, CANNED AND CURED SEAFOODS

This industry comprises establishments primarily engaged in cooking and canning fish, shrimp, oysters, clams, crabs, and other seafoods, including soups; and those engaged in smoking, salting, drying, or otherwise curing fish for the trade. Establishments primarily engaged in shucking and packing fresh oysters in nonsealed containers, or in freezing and packing fresh fish are classified in industry 2092.

The total value of production for establishments classified in the Canned and Cured Seafoods industry amounted to $1,441 million in 1977, an increase of 78 percent from 1972. The value of production of products classified as primary to the industry was $1,025 million, an increase of 74 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $441 million in 1977, was 91 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 16.0 thousand employees, which remains the same as the 1972 figure. The leading States in employment were California, Alaska, Washington, and Maine, accounting for approximately 25 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

INDUSTRY 2092, FRESH OR FROZEN PACKAGED FISH

This industry comprises establishments primarily engaged in preparing fresh and raw or cooked frozen packaged fish and other seafood, including soups. This industry also includes establishments primarily engaged in the shucking and packaging of fresh oysters in nonsealed containers.

The 1977 Census of Manufactures published preliminary data were questioned regarding the number of establishments classified in this industry. After extensive research using reference material provided by the National Marine Fisheries Services it was determined that the administrative records that were being used as a basis for classification, had a number of manufacturing units misclassified in wholesale and retail trade. The reclassification of the establishments into their proper industry was based on extensive contacts with the respondents. A contributing factor leading to the misclassification was the fact that the respondents did not consider themselves to be manufacturers. As a result, the 1977 data are not directly comparable to prior years data. Added to this industry were 388 establishments accounting for approximately $126 million in value added and $505 million in value of production.

The total value of production for establishments classified in

the Fresh or Frozen Packaged Fish industry amounted to $2,665 million in 1977. The value of production of products classified as primary to the industry was $2,459 million. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $701 million in 1977. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 34.3 thousand employees. The leading States in employment were Florida, Massachusetts, Alaska, and Virginia, accounting for approximately 45 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 28 percent of total value of shipments.

INDUSTRY 2095, ROASTED COFFEE

This industry comprises establishments primarily engaged in roasting coffee and in the manufacture of coffee concentrates and extracts in powdered, liquid, or frozen form, including freeze dried.

The total value of shipments for establishments classified in the Roasted Coffee industry amounted to $5,616 million in 1977, an increase of 141 percent from 1972. The value of shipments of products classified as primary to the industry was $5,218 million, an increase of 141 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $988 million in 1977, was 20 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 10.9 thousand employees, a decrease of 16 percent from 1972. The leading States in employment were New Jersey, California, and Texas, accounting for approximately 50 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 50 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

INDUSTRY 2097, MANUFACTURES ICE

This industry comprises establishments primarily engaged in the manufacture of ice for sale. Ice plants operated by public utility companies are included in this industry when separate reports are available. When separate reports are not available, they should be classified in major group 49. Establishments primarily engaged in the manufacture of dry ice are classified in industry 2813.

The total value of shipments for establishments classified in the Manufactured Ice industry amounted to $149 million in 1977, an increase of 28 percent from 1972. The value of shipments of products classified as primary to the industry was $141 million, an increase of 33 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $106 million in 1977, was 16 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 5.3 thousand employees, a decrease of 22 percent from 1972. The leading States in employment were Texas, California, and Florida, accounting for approximately 35 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 35 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 14 percent of total value of shipments.

INDUSTRY 2098, MACARONI AND SPAGHETTI

This industry comprises establishments primarily engaged in the manufacture of dry macaroni, spaghetti, vermicelli, and noodles. Establishments primarily engaged in the manufacture of canned macaroni, spaghetti, etc. are classified in industry 2032.

The total value of shipments for establishments classified in the Macaroni and Spaghetti industry amounted to $662 million in 1977, an increase of 90 percent from 1972. The value of shipments of products classified as primary to the industry was $752 million, an increase of 112 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $327 million in 1977, was 110 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 8.2 thousand employees, an increase of 12 percent from 1972. The leading States in employment were California, New York, New Jersey, and Illinois, accounting for approximately 55 percent of the industry's 1977 employment. Data for New Jersey have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

INDUSTRY 2099, FOOD PREPARATIONS, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of prepared foods and miscellaneous food specialties, not elsewhere classified, such as baking powder, yeast, and other leavening compounds; chocolate and cocoa products, except confectionery, made from purchased materials; peanut butter; packaged tea, including instant; ground spices; potato, corn, and other chips; and vinegar and cider.

The total value of shipments for establishments classified in the Food Preparations, N.E.C. industry amounted to $6,531 million in 1977, an increase of 79 percent from 1972. The value of shipments of products classified as primary to the industry was $6,617 million, an increase of 76 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $3,028 million in 1977, was 179 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 71.5 thousand employees, an increase of 8 percent from 1972. The leading States in employment were California, Illinois, Pennsylvania, and Texas, accounting for approximately 40 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 35 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 7 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2091, CANNED AND CURED SEAFOODS																
1977 Census--	215	255	118	16.0	147.0	13.8	25.0	113.4	$441.0	1 000.4	$1 440.6	28.1	(NA)	311.1	81	96
1976 ASM[5] ---	(NA)	(NA)	(NA)	12.6	113.3	11.0	17.7	88.9	$521.8	857.9	$1 378.1	47.3	179.9	232.3	(NA)	(NA)
1975 ASM[5] ---	(NA)	(NA)	(NA)	13.1	101.4	11.1	17.3	77.4	$377.5	594.1	$1 000.6	27.2	160.5	235.1	(NA)	(NA)
1974 ASM[5] ---	(NA)	(NA)	(NA)	15.9	113.3	14.0	22.4	87.9	$405.1	718.8	$1 046.5	24.1	147.5	281.8	(NA)	(NA)
1973 ASM ----	(NA)	(NA)	(NA)	16.2	108.2	14.1	24.3	82.8	$314.5	684.8	$982.0	17.3	155.8	185.9	(NA)	(NA)
1972 Census--	258	310	139	16.0	99.0	14.0	24.0	75.0	$231.4	580.6	$809.8	15.5	136.0	158.2	87	93
1971 ASM ----	(NA)	(NA)	(NA)	14.3	81.9	12.2	20.2	61.8	$240.3	489.6	$731.6	11.6	171.3	117.4	(NA)	(NA)
1970 ASM ----	(NA)	(NA)	(NA)	13.8	75.7	11.9	20.1	59.0	$222.3	435.2	$657.1	22.2	166.1	108.0	(NA)	(NA)
1969 ASM ----	(NA)	(NA)	(NA)	15.8	73.8	14.0	22.7	57.7	$206.8	401.9	$607.1	9.7	113.9	117.1	(NA)	(NA)
1968 ASM ----	(NA)	(NA)	(NA)	16.2	73.9	14.4	23.3	58.1	$196.4	397.0	$592.7	7.5	119.9	131.7	(NA)	(NA)
1967 Census--	268	320	161	15.8	69.1	14.0	23.6	54.8	$181.0	342.0	$523.1	9.4	114.2	129.1	92	95
1966 ASM ----	(NA)	(NA)	(NA)	16.7	70.6	14.8	24.9	55.7	$204.0	344.6	$548.1	6.6	(NA)	120.4	(NA)	(NA)
1965 ASM ----	(NA)	(NA)	(NA)	16.1	66.5	14.4	24.6	53.2	$190.8	300.7	$492.4	6.3	(NA)	95.3	(NA)	(NA)
1964 ASM ----	(NA)	(NA)	(NA)	15.7	60.8	14.0	23.3	46.8	$166.0	278.7	$444.5	6.0	96.3	96.9	(NA)	(NA)
1963 Census--	345	405	196	17.3	66.2	15.5	25.5	52.6	$174.6	277.8	$452.5	6.3	95.8	88.7	92	95
INDUSTRY 2092, FRESH OR FROZEN PACKAGED FISH																
1977 Census--	908	990	406	34.3	260.8	29.6	49.7	188.9	$700.9	1 962.9	$2 664.9	56.8	(NA)	376.7	97	97
1976 ASM ----	(NA)	(NA)	(NA)	24.8	180.8	21.3	37.4	132.7	$484.5	1 341.6	$1 821.2	32.1	252.8	241.0	(NA)	(NA)
1975 ASM ----	(NA)	(NA)	(NA)	24.0	159.5	20.7	35.4	113.4	$347.9	1 095.8	$1 452.7	24.4	246.4	202.1	(NA)	(NA)
1974 ASM ----	(NA)	(NA)	(NA)	24.7	151.5	20.9	35.6	103.6	$305.3	1 006.1	$1 333.9	23.3	222.5	196.4	(NA)	(NA)
1973 ASM ----	(NA)	(NA)	(NA)	26.1	142.2	22.3	38.5	99.8	$345.0	960.5	$1 279.3	21.6	200.9	216.2	(NA)	(NA)
1972 Census--	470	518	256	25.0	129.6	21.8	37.7	93.8	$287.5	798.1	$1 084.4	17.8	162.1	169.3	96	96
1971 ASM ----	(NA)	(NA)	(NA)	22.2	96.5	19.5	32.7	71.9	$229.0	568.8	$798.0	12.5	130.0	131.7	(NA)	(NA)
1970 ASM ----	(NA)	(NA)	(NA)	21.6	88.3	19.0	33.3	65.1	$184.0	491.0	$674.4	11.6	121.6	107.6	(NA)	(NA)
1969 ASM ----	(NA)	(NA)	(NA)	22.4	91.2	20.2	34.0	71.1	$197.8	482.7	$680.0	11.2	(S)	100.0	(NA)	(NA)
1968 ASM ----	(NA)	(NA)	(NA)	22.3	84.5	20.0	33.9	66.1	$185.1	433.5	$618.5	11.3	(S)	86.7	(NA)	(NA)
1967 Census--	(NA)	497	241	21.4	77.2	19.4	32.8	60.0	$164.9	393.8	$557.4	8.7	(S)	75.2	97	94
1966 ASM ----	(NA)	(NA)	(NA)	19.2	85.5	16.9	29.1	48.8	$151.7	341.5	$492.7	9.4	(NA)	70.8	(NA)	(NA)
1965 ASM ----	(NA)	(NA)	(NA)	18.7	62.0	16.9	29.7	47.2	$138.3	326.1	$464.2	6.2	(NA)	59.8	(NA)	(NA)
1964 ASM ----	(NA)	(NA)	(NA)	20.7	60.2	18.6	32.9	46.3	$128.1	301.2	$428.2	5.4	58.1	63.5	(NA)	(NA)
1963 Census--	528	547	255	20.1	56.5	17.9	32.1	44.6	$118.5	272.7	$391.2	6.1	53.6	53.9	95	94
INDUSTRY 2095, ROASTED COFFEE																
1977 Census--	133	167	89	10.9	164.8	7.2	15.0	103.2	988.0	4 643.4	5 616.4	41.9	(NA)	405.3	96	98
1976 ASM ----	(NA)	(NA)	(NA)	11.4	153.4	7.4	15.4	97.0	1 257.6	3 394.5	4 623.6	37.0	557.2	361.4	(NA)	(NA)
1975 ASM ----	(NA)	(NA)	(NA)	11.9	149.3	7.4	15.2	90.7	1 108.0	2 047.2	3 161.6	48.4	533.3	235.8	(NA)	(NA)
1974 ASM ----	(NA)	(NA)	(NA)	12.1	139.4	7.7	15.8	85.1	905.9	1 845.5	2 724.8	29.5	501.0	225.7	(NA)	(NA)
1973 ASM ----	(NA)	(NA)	(NA)	12.7	135.8	8.2	17.0	84.6	822.6	1 761.1	2 570.3	38.6	494.1	211.1	(NA)	(NA)
1972 Census--	162	213	104	12.9	131.5	8.3	17.0	81.0	825.8	1 503.1	2 328.7	31.5	448.5	183.3	94	97
1971 ASM ----	(NA)	(NA)	(NA)	14.9	136.5	9.0	18.0	77.2	822.6	1 501.6	2 327.1	51.9	457.2	211.3	(NA)	(NA)
1970 ASM ----	(NA)	(NA)	(NA)	15.9	138.0	9.6	19.3	75.8	857.9	1 548.9	2 401.4	35.1	418.1	172.1	(NA)	(NA)
1969 ASM ----	(NA)	(NA)	(NA)	17.1	141.1	10.1	21.0	76.3	860.0	1 362.2	2 212.6	33.0	393.3	189.3	(NA)	(NA)
1968 ASM ----	(NA)	(NA)	(NA)	16.5	130.6	9.7	19.6	69.9	741.6	1 376.8	2 122.9	62.7	390.2	202.7	(NA)	(NA)
1967 Census--	206	268	126	16.3	119.5	9.4	19.0	62.0	726.4	1 373.7	2 092.2	334.6	(NA)	155.0	91	99
1966 ASM ----	(NA)	(NA)	(NA)	16.1	113.3	9.1	18.3	57.7	667.8	1 413.6	2 082.5	25.5	(NA)	154.6	(NA)	(NA)
1965 ASM ----	(NA)	(NA)	(NA)	16.2	110.9	9.1	18.7	56.6	628.3	1 456.6	2 089.6	25.0	(NA)	151.1	(NA)	(NA)
1964 ASM ----	(NA)	(NA)	(NA)	17.4	118.3	10.1	20.7	58.2	677.3	1 451.8	2 113.1	21.4	264.3	182.4	(NA)	(NA)
1963 Census--	261	324	133	17.2	111.4	10.1	20.5	55.6	616.4	1 256.6	1 868.1	23.5	249.7	151.1	90	99
INDUSTRY 2097, MANUFACTURED ICE																
1977 Census--	543	678	63	5.3	47.8	3.5	6.7	25.5	106.1	43.6	149.4	16.9	(NA)	4.4	99	99
1976 ASM ----	(NA)	(NA)	(NA)	5.6	48.0	3.8	7.4	27.9	113.3	37.4	150.9	14.1	(S)	5.9	(NA)	(NA)
1975 ASM ----	(NA)	(NA)	(NA)	5.7	43.8	3.8	6.5	24.2	94.5	30.9	125.7	10.2	(S)	6.1	(NA)	(NA)
1974 ASM[6] ---	(NA)	(NA)	(NA)	5.5	43.3	4.8	8.3	25.1	93.4	29.7	123.5	9.0	(S)	3.5	(NA)	(NA)
1973 ASM ----	(NA)	(NA)	(NA)	6.4	43.4	4.4	9.1	26.5	97.2	24.0	120.6	8.1	(S)	2.8	(NA)	(NA)
1972 Census--	810	816	87	5.8	42.6	4.7	9.5	26.1	91.7	24.5	116.4	8.9	(S)	2.2	100	99
1971 ASM[6] ---	(NA)	(NA)	(NA)	7.7	46.1	4.8	11.2	27.5	81.3	29.9	111.7	16.1	(S)	2.8	(NA)	(NA)
1970 ASM[6] ---	(NA)	(NA)	(NA)	8.6	47.4	5.6	13.0	30.0	86.5	28.3	114.5	5.3	161.6	2.7	(NA)	(NA)
1969 ASM[6] ---	(NA)	(NA)	(NA)	5.8	30.8	4.1	7.9	19.5	62.1	16.5	82.3	9.1	115.1	1.3	(NA)	(NA)
1968 ASM[6] ---	(NA)	(NA)	(NA)	6.2	31.9	4.2	8.3	19.5	64.6	17.6	83.6	3.9	116.5	1.3	(NA)	(NA)
1967 Census--	688	847	109	7.9	38.0	5.4	10.4	23.2	75.7	24.1	99.5	4.8	151.4	2.4	100	99
1966 ASM[6] ---	(NA)	(NA)	(NA)	10.1	44.6	6.5	14.5	27.0	98.0	26.6	124.2	5.3	(NA)	3.0	(NA)	(NA)
1965 ASM[6] ---	(NA)	(NA)	(NA)	10.4	43.7	6.6	14.6	26.8	93.7	30.9	125.6	4.2	(NA)	1.9	(NA)	(NA)
1964 ASM[6] ---	(NA)	(NA)	(NA)	10.6	43.3	6.4	13.8	24.8	89.4	26.9	116.4	3.9	173.7	2.6	(NA)	(NA)
1963 Census--	862	1 199	135	10.8	42.9	6.7	14.1	25.9	90.2	32.4	122.5	5.7	171.1	2.7	99	100

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
	INDUSTRY 2098, MACARONI AND SPAGHETTI															
1977 Census--	189	205	68	8.2	96.0	5.7	12.3	56.5	327.0	337.1	662.0	12.6	(NA)	48.4	99	83
1976 ASM----	(NA)	(NA)	(NA)	7.4	86.5	5.2	11.5	50.2	248.7	342.9	592.1	14.9	161.5	41.3	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	7.0	73.5	5.1	10.6	42.5	216.8	339.3	552.9	14.2	160.5	42.0	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	7.3	68.3	5.2	10.9	40.6	197.3	356.3	550.9	10.2	128.8	40.6	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	7.3	62.8	5.1	10.7	37.0	171.5	244.0	410.5	6.1	109.3	34.6	(NA)	(NA)
1972 Census--	179	194	64	7.3	59.4	5.1	10.8	34.2	155.7	194.4	348.3	7.1	105.9	27.3	99	91
1971 ASM----	(NA)	(NA)	(NA)	7.4	53.7	5.3	11.3	33.0	142.0	172.3	314.0	7.1	105.4	23.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	7.7	51.5	5.3	11.3	30.5	142.6	166.3	307.6	7.1	99.0	22.3	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	8.4	53.9	5.9	12.1	31.5	144.0	179.4	321.9	10.2	112.1	26.6	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	8.1	49.2	5.7	11.7	28.8	137.3	170.9	306.3	5.5	106.5	24.8	(NA)	(NA)
1967 Census--	190	205	75	7.5	43.2	5.4	11.0	25.4	119.7	148.6	266.0	5.2	106.5	20.9	97	98
1966 ASM----	(NA)	(NA)	(NA)	7.4	40.1	5.2	10.9	23.6	106.2	132.0	237.7	8.4	(NA)	19.1	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	7.8	40.0	5.3	11.3	24.1	110.0	129.2	238.3	7.0	(NA)	18.2	(NA)	(NA)
1964 ASM[6] ---	(NA)	(NA)	(NA)	7.3	38.1	5.0	10.6	21.9	105.4	129.5	234.6	7.0	79.7	15.8	(NA)	(NA)
1963 Census[6] -	207	221	70	7.3	35.5	5.1	10.4	21.2	96.0	126.5	222.9	4.8	75.4	14.8	96	94
	INDUSTRY 2099, FOOD PREPARATIONS, N.E.C.															
1977 Census--	1 874	2 117	669	71.5	792.6	50.9	97.7	484.1	3 028.1	3 499.2	6 531.0	166.2	(NA)	534.1	89	83
1976 ASM----	(NA)	(NA)	(NA)	69.1	735.2	49.0	96.0	433.8	3 026.8	3 283.6	6 291.5	152.1	1 401.1	518.0	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	64.3	637.2	44.2	86.3	366.2	2 431.3	3 138.3	5 583.8	171.3	1 329.6	471.6	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	60.0	555.5	42.2	83.2	323.3	2 249.5	2 668.6	4 862.2	128.0	1 146.9	486.9	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	71.1	576.1	47.9	92.3	328.2	2 071.7	2 222.9	4 232.0	92.6	1 145.5	378.0	(NA)	(NA)
1972 Census--	1 856	2 099	658	66.2	512.1	44.7	83.8	285.2	1 805.2	1 853.8	3 647.9	91.8	1 050.2	294.8	90	82
1971 ASM----	(NA)	(NA)	(NA)	66.0	484.6	43.1	83.0	259.3	1 659.4	1 706.1	3 350.4	124.9	943.7	277.3	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	67.3	453.9	43.7	85.9	237.9	1 554.9	1 647.8	3 189.6	101.0	867.9	265.7	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	65.6	417.5	45.2	87.3	233.5	1 326.4	1 548.3	2 868.2	61.4	739.3	239.1	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	62.3	369.2	43.3	83.9	206.9	1 183.7	1 427.6	2 603.5	62.5	716.9	219.2	(NA)	(NA)
1967 Census--	1 824	2 082	636	61.6	353.3	42.9	83.7	198.3	1 107.5	1 316.8	2 413.3	86.7	679.4	214.1	90	82
1966 ASM----	(NA)	(NA)	(NA)	59.1	316.1	39.6	79.5	174.6	1 023.2	1 178.8	2 206.0	91.4	(NA)	201.7	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	56.5	294.4	38.8	78.3	165.6	940.5	1 122.6	2 061.6	61.2	(NA)	200.6	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	57.5	293.4	37.3	73.0	154.3	904.8	1 006.3	1 900.3	70.0	510.2	194.2	(NA)	(NA)
1963 Census--	1 977	2 190	547	54.3	271.3	35.6	71.0	145.3	849.6	951.8	1 797.3	62.1	425.6	174.1	91	78

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2091, CANNED AND CURED SEAFOODS											
1977 Census--	9 185	(NA)	86	1 803	4.54	69	79	(NA)	27 556	33	17.67
1976 ASM----	8 992	14 277	87	1 609	5.02	62	70	13	41 412	21	29.48
1975 ASM----	7 740	12 251	84	1 558	4.47	59	69	16	28 816	26	21.82
1974 ASM----	7 125	9 276	88	1 600	3.92	68	79	14	25 477	27	18.08
1973 ASM----	6 679	9 617	87	1 723	3.40	69	80	15	19 413	34	12.94
1972 Census--	6 187	8 500	87	1 714	3.12	71	83	16	14 462	42	9.64
1971 ASM----	5 727	11 979	85	1 655	3.05	66	78	23	16 804	34	11.89
1970 ASM----	5 485	12 036	86	1 689	2.93	66	77	25	16 108	34	11.05
1969 ASM----	4 670	7 208	88	1 621	2.54	66	78	18	13 088	35	9.11
1968 ASM----	4 561	7 401	88	1 618	2.49	66	79	20	12 123	37	8.42
1967 Census--	4 373	7 227	88	1 685	2.32	65	78	21	11 455	38	7.66
1966 ASM----	4 227	(NA)	88	1 682	2.23	62	75	(NA)	12 215	34	8.19
1965 ASM----	4 130	(NA)	89	1 708	2.16	61	74	(NA)	11 850	34	7.75
1964 ASM----	3 872	6 133	89	1 664	2.00	62	76	21	10 573	36	7.12
1963 Census--	3 826	5 537	89	1 645	2.06	61	76	21	10 092	37	6.84
INDUSTRY 2092, FRESH OR FROZEN PACKAGED FISH											
1977 Census--	7 608	(NA)	86	1 681	3.80	73	83	(NA)	20 449	37	14.10
1976 ASM----	7 290	10 193	85	1 755	3.54	73	83	13	19 536	37	12.95
1975 ASM----	6 645	10 266	85	1 710	3.20	75	86	16	14 495	45	9.82
1974 ASM----	6 133	9 008	84	1 703	2.91	75	86	16	12 360	49	8.57
1973 ASM----	5 448	7 697	85	1 726	2.59	75	86	15	13 218	41	8.96
1972 Census--	5 184	6 484	87	1 729	2.48	73	85	14	11 500	45	7.62
1971 ASM----	4 346	5 855	87	1 676	2.19	71	83	16	10 315	42	7.00
1970 ASM----	3 995	5 629	87	1 752	1.95	72	85	18	8 518	46	5.52
1969 ASM----	4 071	(S)	90	1 683	2.09	70	84	(S)	8 830	46	5.81
1968 ASM----	3 789	(S)	89	1 695	1.94	70	83	(S)	8 300	45	5.46
1967 Census--	3 607	(S)	91	1 690	1.82	70	84	(S)	7 706	46	5.02
1966 ASM----	3 411	(NA)	88	1 721	1.67	69	82	(NA)	7 901	43	5.21
1965 ASM----	3 315	(NA)	90	1 757	1.58	70	83	(NA)	7 395	44	4.65
1964 ASM----	2 908	2 806	89	1 768	1.40	70	84	13	6 188	46	3.89
1963 Census--	2 810	2 666	89	1 793	1.38	69	84	13	5 895	47	3.69
INDUSTRY 2095, ROASTED COFFEE											
1977 Census--	15 062	(NA)	65	2 091	6.87	62	85	(NA)	90 316	16	65.78
1976 ASM----	13 456	48 877	64	2 081	6.29	73	76	12	110 315	12	81.66
1975 ASM----	12 546	44 815	62	2 054	5.96	64	69	16	93 109	13	72.89
1974 ASM----	11 520	41 404	63	2 051	5.38	67	72	18	74 867	15	57.33
1973 ASM----	10 692	38 905	64	2 073	4.97	68	73	19	64 771	16	48.38
1972 Census--	10 193	34 767	64	2 048	4.76	64	70	19	64 015	15	48.57
1971 ASM----	9 161	30 684	60	2 000	4.28	64	70	19	55 208	16	45.70
1970 ASM----	8 679	26 295	60	2 010	3.97	64	70	17	53 955	16	44.45
1969 ASM----	8 251	23 000	59	2 079	3.63	61	67	17	50 292	16	40.95
1968 ASM----	7 915	23 648	58	2 020	3.58	64	71	18	44 945	17	37.83
1967 Census--	7 331	(NA)	57	2 021	3.26	65	71	(NA)	44 564	16	38.23
1966 ASM----	7 037	(NA)	58	2 010	3.15	67	73	(NA)	41 478	16	36.49
1965 ASM----	6 845	(NA)	56	2 054	3.02	69	75	(NA)	38 783	17	33.59
1964 ASM----	6 798	15 189	58	2 049	2.81	67	74	12	38 925	17	32.71
1963 Census--	6 476	14 517	58	2 029	2.71	67	73	13	35 837	18	30.06
INDUSTRY 2097, MANUFACTURED ICE											
1977 Census--	9 065	(NA)	66	1 902	3.81	29	61	(NA)	20 116	45	15.84
1976 ASM----	8 571	(S)	67	1 947	3.77	24	56	(S)	20 232	42	15.31
1975 ASM----	7 684	(S)	66	1 710	3.72	24	59	(S)	16 578	46	14.53
1974 ASM----	6 560	(S)	72	1 729	3.02	24	59	(S)	14 151	46	11.25
1973 ASM----	6 781	(S)	66	2 068	2.91	19	55	(S)	15 187	44	10.68
1972 Census--	6 264	(S)	69	2 021	2.74	21	57	(S)	13 485	46	9.65
1971 ASM----	5 987	(S)	62	2 333	2.45	26	68	(S)	10 558	56	7.25
1970 ASM----	5 511	18 790	65	2 321	2.30	24	66	141	10 058	54	6.65
1969 ASM----	5 275	19 844	70	1 926	2.46	20	57	139	10 706	49	7.86
1968 ASM----	5 145	19 112	67	1 976	2.34	21	59	141	10 419	49	7.78
1967 Census--	4 810	19 164	68	1 925	2.23	24	62	152	9 582	50	7.27
1966 ASM----	4 415	(NA)	64	2 230	1.86	21	57	(NA)	9 702	45	6.75
1965 ASM----	4 201	(NA)	63	2 212	1.83	24	59	(NA)	9 009	46	6.41
1964 ASM----	4 084	16 386	60	2 156	1.79	23	60	149	8 433	48	6.47
1963 Census--	3 972	15 842	62	2 104	1.83	26	61	139	8 351	47	6.39

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2098, MACARONI AND SPAGHETTI										
1977 Census--	11 693	(NA)	59	2 156	4.58	50	65	(NA)	39 850	29	26.51
1976 ASM----	11 689	21 824	70	2 211	4.36	57	72	27	33 608	34	21.62
1975 ASM----	10 500	22 928	72	2 078	4.00	61	74	29	30 971	33	20.45
1974 ASM----	9 356	17 780	71	2 096	3.72	64	77	23	27 027	34	18.10
1973 ASM----	8 602	14 972	69	2 098	3.45	59	74	26	23 493	36	16.02
1972 Census--	8 136	14 506	69	2 117	3.16	55	72	30	21 328	38	14.41
1971 ASM----	7 256	14 243	71	2 132	2.92	54	71	33	19 189	37	12.56
1970 ASM----	6 688	12 857	68	2 132	2.69	54	70	32	18 519	36	12.61
1969 ASM----	6 416	13 345	70	2 050	2.60	55	72	34	17 142	37	11.90
1968 ASM----	6 074	13 148	70	2 052	2.46	55	71	34	16 950	35	11.73
1967 Census--	5 760	14 200	72	2 037	2.30	55	72	40	15 960	36	10.66
1966 ASM----	5 418	(NA)	70	2 096	2.16	55	72	(NA)	14 351	37	9.74
1965 ASM----	5 128	(NA)	67	2 132	2.13	54	71	(NA)	14 102	36	9.73
1964 ASM----	5 219	10 917	68	2 120	2.06	55	71	33	14 438	36	9.94
1963 Census--	4 863	10 328	69	2 039	2.03	56	72	33	13 150	36	9.23
	INDUSTRY 2099, FOOD PREPARATIONS, N.E.C.										
1977 Census--	11 080	(NA)	71	1 918	4.95	53	65	(NA)	42 334	26	30.98
1976 ASM----	10 639	20 276	70	1 959	4.51	52	63	22	43 803	24	31.52
1975 ASM----	9 909	20 678	68	1 952	4.24	56	67	23	37 811	26	28.17
1974 ASM----	9 258	19 115	70	1 971	3.88	54	66	23	37 491	24	27.03
1973 ASM----	8 102	16 111	67	1 926	3.55	52	66	27	29 137	27	22.44
1972 Census--	7 735	15 864	67	1 874	3.40	50	64	28	27 268	28	21.54
1971 ASM----	7 342	14 298	65	1 925	3.12	50	65	28	25 142	29	19.99
1970 ASM----	6 744	12 895	64	1 965	2.76	51	65	27	23 104	29	18.10
1969 ASM----	6 364	11 269	68	1 931	2.67	53	68	25	20 219	31	15.19
1968 ASM----	5 926	11 507	69	1 937	2.48	54	69	27	19 000	31	14.10
1967 Census--	5 735	11 029	69	1 951	2.36	54	69	28	17 978	31	13.23
1966 ASM----	5 348	(NA)	67	2 007	2.19	53	67	(NA)	17 313	30	12.87
1965 ASM----	5 210	(NA)	68	2 018	2.11	54	68	(NA)	16 646	31	12.01
1964 ASM----	5 102	8 873	64	1 957	2.11	52	68	26	15 735	32	12.39
1963 Census--	4 996	7 837	65	1 994	2.04	52	68	23	15 646	31	11.96

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 2091, CANNED AND CURED SEAFOODS														
United States	-	255	118	16.0	147.0	13.8	25.0	113.4	[3]441.0	1 000.4	[3]1 440.6	28.1	16.0	231.4
New England Division:														
Maine	-	23	15	1.2	6.1	1.0	1.4	4.6	25.1	25.7	50.8	(D)	1.4	12.2
Middle Atlantic Division:														
New York	-	17	9	0.5	5.6	0.4	0.7	3.6	18.4	32.6	51.2	0.4	0.6	10.5
New Jersey	-	9	6	0.4	4.6	0.4	0.7	3.0	11.0	21.8	32.8	1.4	CC	(D)
Pennsylvania	-	3	2	0.2	1.9	0.1	0.3	1.4	0.3	8.4	8.8	(D)	(NA)	(NA)
East North Central Division:														
Illinois	-	5	3	0.3	2.7	0.2	0.4	1.7	5.7	15.3	20.9	(D)	0.2	3.7
South Atlantic Division:														
Delaware	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Maryland	E2	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
East South Central Division:														
Mississippi	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West South Central Division:														
Louisiana	E1	23	10	0.5	3.8	0.4	0.8	2.9	11.0	44.8	55.8	1.1	CC	(D)
Pacific Division:														
Washington	-	37	15	1.6	14.5	1.4	2.6	11.5	37.4	76.1	113.7	3.0	EE	(D)
Oregon	-	11	2	0.5	3.3	0.5	0.6	3.0	7.0	22.2	29.1	(D)	0.7	7.5
California	-	16	10	7.1	71.4	6.0	11.6	55.1	213.8	567.2	780.5	11.9	4.2	67.8
Alaska	-	40	28	2.0	20.6	1.9	3.3	17.2	78.6	102.8	181.1	4.2	1.6	29.8
Hawaii	-	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
INDUSTRY 2092, FRESH OR FROZEN PACKAGED FISH														
United States	-	990	406	34.3	260.8	29.6	49.7	188.9	[3]700.9	1 962.9	[3]2 664.9	56.8	25.0	287.5
New England Division:														
Maine	-	29	6	0.6	5.0	0.5	0.8	3.1	10.0	31.6	41.6	(D)	0.8	7.0
New Hampshire	-	7	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Massachusetts	-	79	43	3.8	34.3	3.1	5.6	22.7	78.5	299.4	377.8	8.8	2.9	46.7
Rhode Island	-	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Connecticut	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	E1	22	4	0.4	3.7	0.3	0.7	2.6	10.2	18.9	29.5	(D)	0.5	6.0
New Jersey	E1	19	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pennsylvania	-	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East North Central Division:														
Ohio	-	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Wisconsin	-	17	4	0.2	1.5	0.2	0.3	1.2	3.5	11.0	14.5	0.2	(NA)	(NA)
South Atlantic Division:														
Maryland	E1	79	27	2.2	15.1	1.9	3.0	11.2	39.8	111.1	150.9	2.1	1.1	13.3
Virginia	E1	121	53	3.3	16.9	2.9	4.1	12.5	40.9	101.0	141.8	2.7	2.3	14.8
North Carolina	E2	45	14	0.7	5.4	0.6	1.2	4.0	13.0	31.8	44.8	(D)	0.3	2.1
South Carolina	E2	14	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	-	15	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	12.6
Florida	E2	99	37	4.6	29.6	3.9	6.6	21.1	63.4	180.7	243.8	3.8	3.8	35.9
East South Central Division:														
Alabama	-	29	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.9
Mississippi	-	19	10	0.7	5.3	0.6	1.1	3.8	15.6	42.6	58.1	(D)	(NA)	(NA)
West South Central Division:														
Louisiana	E1	76	21	1.5	8.2	1.4	1.9	6.3	24.7	67.9	92.8	2.6	CC	(D)
Texas	E1	35	14	1.3	8.2	1.2	1.9	6.2	14.5	89.9	104.4	(D)	2.3	23.8
Mountain Division:														
Idaho	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	E1	69	34	2.1	18.1	1.8	3.1	14.2	81.4	179.3	259.6	2.4	1.4	21.0
Oregon	E1	33	23	1.5	11.2	1.3	2.1	9.1	23.2	60.6	83.8	2.3	EE	(D)
California	E1	51	29	2.5	21.6	2.1	4.0	15.4	60.6	146.7	207.2	2.1	1.5	17.7
Alaska	-	56	36	3.0	33.9	2.8	4.8	26.1	101.0	198.9	302.7	13.2	1.2	19.1
INDUSTRY 2095, ROASTED COFFEE														
United States	-	167	89	10.9	164.8	7.2	15.0	103.2	988.0	4 643.4	5 616.4	41.9	12.9	525.8
New England Division:														
Massachusetts	-	6	3	0.2	2.6	0.1	0.1	0.6	8.0	37.1	44.8	0.2	0.3	6.1
Middle Atlantic Division:														
New York	-	20	12	0.6	9.0	0.4	0.8	4.2	52.7	198.9	248.6	0.8	0.7	30.7
New Jersey	-	13	8	2.7	45.5	1.9	4.2	30.2	214.9	977.8	1 204.7	5.8	3.6	268.9
East North Central Division:														
Ohio	-	10	6	0.9	10.8	0.4	0.8	4.4	95.7	197.3	291.6	0.2	1.1	38.7
Illinois	-	7	3	0.4	5.0	0.3	0.7	4.3	14.9	60.7	75.2	(D)	0.6	25.1
West North Central Division:														
Minnesota	-	5	3	0.2	1.9	0.1	0.1	0.6	8.7	15.4	24.5	(D)	(NA)	(NA)
Missouri	-	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	17.7

See footnotes at end of table

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2095, ROASTED COFFEE—Con.														
South Atlantic Division:														
Florida	-	18	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	81.6
East South Central Division:														
Tennessee	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Alabama	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Louisiana	-	10	6	0.7	8.5	0.5	1.1	6.1	57.2	384.4	442.1	5.1	CC	(D)
Texas	-	9	5	1.2	22.2	0.9	2.1	17.5	98.4	600.2	694.3	7.5	1.3	114.3
Pacific Division:														
California	-	22	12	1.4	21.6	1.0	1.9	14.9	196.6	763.8	951.6	8.8	1.3	113.7
INDUSTRY 2097, MANUFACTURED ICE														
United States	E1	678	63	5.3	47.8	3.5	6.7	25.5	106.1	43.6	149.4	16.9	5.8	91.7
East North Central Division:														
Ohio	-	18	3	0.2	1.7	0.1	0.2	0.8	2.2	1.0	3.2	0.4	AA	(D)
Indiana	-	19	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois	-	19	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Division:														
Missouri	E1	21	2	0.2	1.3	0.1	0.2	0.8	2.5	1.0	3.6	0.4	AA	(D)
South Atlantic Division:														
North Carolina	-	30	1	0.2	1.4	0.1	0.2	0.8	2.7	2.1	4.8	0.5	0.2	1.8
Georgia	E2	28	1	0.2	1.5	0.1	0.2	0.9	3.6	1.6	5.2	1.2	AA	(D)
Florida	E1	44	8	0.5	3.5	0.4	0.7	2.2	8.6	3.4	12.0	0.9	0.5	7.0
West South Central Division:														
Louisiana	E1	32	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Texas	E1	76	11	0.8	6.5	0.5	1.0	3.3	17.3	4.9	22.3	4.0	1.0	13.7
Pacific Division:														
California	-	52	11	0.6	6.2	0.3	0.6	2.2	14.1	6.3	20.4	2.0	0.9	10.7
INDUSTRY 2098, MACARONI AND SPAGHETTI														
United States	-	205	68	8.2	96.0	5.7	12.3	56.5	327.0	337.1	662.0	12.8	7.3	155.7
New England Division:														
Massachusetts	-	10	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	-	36	11	1.4	14.7	1.0	2.3	9.5	47.1	54.1	101.3	1.5	1.4	23.2
New Jersey	-	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pennsylvania	-	11	6	0.7	8.2	0.5	1.0	5.0	30.0	27.0	57.1	0.6	CC	(D)
East North Central Division:														
Ohio	-	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois	-	18	5	0.8	8.3	0.6	1.4	6.3	32.3	38.6	70.5	0.6	CC	(D)
Michigan	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:														
Minnesota	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Nebraska	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Kansas	E3	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Louisiana	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Pacific Division:														
Washington	-	5	4	0.3	3.2	0.2	0.4	1.9	9.2	11.6	20.8	0.1	0.2	4.3
California	-	37	13	1.4	18.1	1.0	2.3	10.6	53.8	52.6	105.3	2.7	0.8	16.3
INDUSTRY 2099, FOOD PREPARATIONS, N.E.C.														
United States	-	2 117	669	71.5	792.6	50.9	97.7	484.1	3 028.1	3 499.2	6 531.0	166.2	66.2	1 805.2
New England Division:														
Maine	-	11	4	0.3	3.2	0.2	0.4	1.3	7.3	10.1	16.9	(D)	BB	(D)
Vermont	-	9	2	0.2	1.6	0.1	0.2	1.0	5.7	7.7	13.4	0.3	(NA)	(NA)
Massachusetts	-	46	14	1.2	13.2	0.8	1.5	7.4	32.2	53.7	85.8	1.9	1.5	32.2
Rhode Island	E2	9	2	0.2	1.4	0.1	0.2	0.8	3.5	5.5	9.1	0.2	(NA)	(NA)
Connecticut	-	17	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	-	149	35	3.6	39.5	2.8	5.6	26.5	139.6	178.2	316.4	11.8	4.6	120.1
New Jersey	-	59	21	1.6	23.3	1.1	2.3	13.7	87.7	133.0	218.8	7.0	2.0	58.9
Pennsylvania	-	102	46	5.0	52.9	4.2	8.2	36.8	189.6	249.5	438.3	10.7	5.0	100.2
East North Central Division:														
Ohio	-	113	32	3.1	33.7	2.1	4.0	19.4	131.9	134.9	266.6	7.9	3.2	79.2
Indiana	-	35	16	1.6	18.5	1.1	2.1	11.1	89.4	82.7	169.7	2.2	1.6	40.4
Illinois	-	120	52	6.4	84.2	4.2	8.5	43.4	348.8	404.3	751.5	9.7	5.3	237.4
Michigan	-	56	26	1.9	22.1	1.3	2.6	13.2	65.1	93.0	157.9	2.8	1.9	37.5
Wisconsin	-	52	27	1.9	21.4	1.5	2.7	15.0	84.2	87.5	170.1	4.2	1.4	32.6

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2099, FOOD PREPARATIONS, N.E.C.—Con.														
West North Central Division:														
Minnesota	-	31	10	0.7	8.7	0.5	0.8	3.9	23.5	30.3	53.9	1.0	1.1	25.2
Iowa	-	20	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	24.0
Missouri	-	44	22	2.1	24.8	1.3	2.5	13.5	109.8	124.5	235.0	(D)	1.8	49.0
North Dakota	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nebraska	E1	15	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Kansas	-	23	6	0.8	9.0	0.6	1.0	5.5	35.4	34.3	70.4	(D)	0.8	19.8
South Atlantic Division:														
Delaware	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Maryland	-	34	11	1.9	21.2	1.3	2.4	10.6	70.4	71.6	147.9	2.6	2.0	52.3
Virginia	E1	48	19	2.2	22.9	1.6	3.1	13.0	120.1	143.9	264.8	6.8	1.5	70.8
North Carolina	-	37	18	1.6	16.6	1.2	2.2	11.0	32.6	55.4	89.2	4.7	EE	(D)
Georgia	-	32	11	1.6	16.7	1.3	2.3	11.6	64.6	73.7	137.7	2.2	2.5	60.3
Florida	E2	68	15	1.2	13.4	0.9	1.8	8.9	47.9	47.7	95.4	3.6	1.2	27.7
East South Central Division:														
Kentucky	-	24	13	1.3	13.2	0.9	1.7	8.5	64.7	101.5	163.2	3.3	0.9	23.2
Tennessee	-	43	15	2.6	29.3	1.9	3.8	19.4	72.0	119.2	193.5	10.1	2.0	37.9
Alabama	-	22	6	1.1	12.9	0.5	1.0	4.5	23.8	29.4	53.2	(D)	1.0	15.1
Mississippi	E1	17	4	0.5	5.1	0.4	0.7	3.7	21.2	16.6	37.8	0.3	(NA)	(NA)
West South Central Division:														
Arkansas	-	17	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana	E2	39	9	0.6	5.5	0.4	0.8	3.4	17.1	21.5	38.4	1.6	0.7	16.8
Oklahoma	E2	19	5	0.3	2.9	0.2	0.4	1.6	6.0	7.9	13.8	0.2	CC	(D)
Texas	E1	208	55	5.6	59.1	4.3	8.0	40.4	254.3	226.9	481.3	7.6	4.9	144.0
Mountain Division:														
Colorado	E1	35	10	0.9	8.0	0.6	1.0	4.3	20.6	22.1	42.0	(D)	0.8	14.2
New Mexico	E1	23	5	0.3	2.0	0.2	0.3	1.1	8.4	8.0	16.4	0.2	0.3	3.9
Arizona	E7	28	3	0.2	2.0	0.2	0.3	1.2	6.1	7.3	13.4	0.2	0.4	5.8
Utah	E1	13	4	0.5	4.1	0.4	0.6	2.1	11.3	11.5	22.6	(D)	0.4	6.5
Nevada	E1	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	-	46	10	1.1	13.1	0.9	1.5	8.4	51.2	56.5	106.9	2.1	CC	(D)
Oregon	E1	25	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	8.7
California	E1	316	93	10.6	115.4	8.0	15.2	78.9	424.5	452.4	882.7	20.4	8.4	241.6
Hawaii	E2	41	3	0.5	4.7	0.3	0.5	2.0	11.6	11.0	22.5	0.6	0.3	5.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Canned and cured seafoods (SIC 2091)	Fresh or frozen packaged fish (SIC 2092)	Roasted coffee (SIC 2095)	Manufactured ice (SIC 2097)	Macaroni and spaghetti (SIC 2098)	Food preparations, n.e.c. (SIC 2099)
Primary product specialization ratio[1]	percent	81	97	96	99	99	89
Coverage ratio[2]	do	96	97	98	99	83	83
All establishments	number	255	990	167	678	205	2 117
With 1 to 19 employees	do	137	584	78	615	137	1 448
With 20 to 99 employees	do	84	329	64	61	42	496
With 100 employees or more	do	34	77	25	2	26	173
All employees, average for year	1,000	16.0	34.3	10.9	5.3	8.2	71.5
Payroll for year, all employees	mil. dol.	147.0	260.8	164.8	47.8	96.0	792.6
Production workers:							
Average for year	1,000	13.8	29.6	7.2	3.5	5.7	50.9
March	do	11.6	27.3	7.7	2.5	5.9	49.6
May	do	12.3	29.3	7.3	3.7	5.6	50.8
August	do	17.6	31.8	6.4	5.2	5.5	52.3
November	do	13.8	29.8	7.4	2.7	5.9	51.1
Hours	millions	25.0	49.7	15.0	6.7	12.3	97.7
January to March	do	5.1	10.8	4.1	1.1	3.2	24.0
April to June	do	5.8	12.5	3.8	1.7	3.0	24.4
July to September	do	8.1	13.8	3.2	2.6	2.9	24.5
October to December	do	6.0	12.5	3.9	1.2	3.2	24.8
Wages	mil. dol.	113.4	188.9	103.2	25.5	56.5	484.1
Cost of materials, etc.	do	1 000.4	1 962.9	4 643.4	43.6	337.1	3 499.2
Materials, parts, containers, etc., consumed	do	733.9	1 725.8	4 397.3	23.5	299.7	3 153.2
Resales	do	250.4	184.0	210.9	3.3	27.1	242.9
Fuels consumed	do	7.9	9.4	18.1	1.1	3.6	51.0
Purchased electric energy	do	6.0	19.3	12.7	15.6	5.6	38.7
Contract work	do	2.2	24.4	4.4	(Z)	1.1	13.3
Value of shipments, including resales	do	[5]1 440.6	[5]2 664.9	5 616.4	149.4	662.0	6 531.0
Value of resales	do	254.4	190.8	263.3	4.6	27.8	307.5
Value added by manufacture	do	[5]441.0	[5]700.9	988.0	106.1	327.0	3 028.1
Manufacturers' inventories:							
Beginning of year	do	256.6	313.3	383.9	3.3	45.1	509.4
Finished products	do	181.6	195.7	95.4	0.9	24.3	227.8
Work in process	do	7.6	24.3	38.8	0.3	2.2	27.6
Materials, supplies, fuel, etc.	do	67.5	93.3	249.7	2.1	18.6	254.0
End of year	do	311.1	376.7	405.3	4.4	48.4	534.1
Finished products	do	224.7	244.0	112.5	1.2	26.3	223.1
Work in process	do	8.4	23.1	36.6	0.2	2.4	28.5
Materials, supplies, fuel, etc.	do	78.0	109.6	256.1	3.0	19.7	282.5
Capital expenditures for plant and equipment	do	33.1	60.6	49.1	17.8	12.6	180.4
New capital expenditures	do	28.1	56.8	41.9	16.9	12.6	166.2
New buildings and other structures	do	8.9	19.0	1.4	5.2	3.3	32.6
New machinery and equipment	do	19.2	37.8	40.4	11.6	9.2	133.6
Used capital expenditures	do	4.9	3.8	7.3	1.0	0.1	14.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Canned and cured seafood (SIC 2091)		Fresh or frozen packaged fish (SIC 2092)		Roasted coffee (SIC 2095)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	(0.7)	61	2.3	12	1.2	8
Response coverage ratio[2] (percent)	61.2	(X)	66.4	(X)	68.1	(X)
Machinery	(1.9)	16	8.1	10	7.9	6
Response coverage ratio[2] (percent)	60.9	(X)	63.9	(X)	65.0	(X)
Cost of purchased communication services	1.7	11	3.1	9	(2.2)	17
Response coverage ratio[2] (percent)	59.8	(X)	63.4	(X)	59.9	(X)
Rental payments	4.5	9	7.3	8	6.1	8
Buildings and other structures	2.0	14	(2.8)	15	3.9	12
Machinery and equipment	2.5	6	4.5	10	2.2	6
Supplemental labor costs	28.9	4	32.2	4	38.0	2
Legal costs	16.6	4	21.1	5	14.4	4
Voluntary costs	12.3	5	11.1	5	23.6	2
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning or year	64.7	8	92.0	7	120.1	2
New capital expenditures	9.1	9	(17.0)	15	(2.4)	51
Used capital expenditures	0.5	12	(2.0)	22	0.2	1
Retirements	4.2	6	(1.4)	34	1.3	10
End of year	70.1	8	109.7	6	121.4	2
Machinery and equipment:						
Beginning of year	124.5	6	134.2	7	460.2	2
New capital expenditures	17.7	4	34.7	12	45.6	12
Automobiles, trucks, etc., for highway use[3]	(0.1)	(A)	(0.9)	(A)	(1.9)	(A)
Computers and peripheral data processing equipment[3]	(0.1)	(A)	(0.3)	(A)	(0.5)	(A)
All other[3]	(11.0)	(A)	(18.0)	(A)	(32.1)	62
New machinery and equipment, n.s.k[4]	(6.4)	(A)	(15.5)	(A)	(11.1)	(A)
Used capital expenditures	4.0	1	(1.0)	24	6.8	5
Retirements	11.6	4	7.1	12	(14.4)	22
End of year	134.6	6	162.8	6	498.3	2
Total gross value of depreciable assets:						
Beginning of year	189.2	5	226.1	5	580.3	2
New capital expenditures	26.8	4	51.7	11	48.0	14
Used capital expenditures	4.5	2	(3.1)	19	7.0	5
Retirements	15.8	5	8.5	15	(15.7)	20
End of year	204.7	5	272.5	5	619.7	2
Depreciation charges during 1977	(18.0)	18	18.5	5	46.5	2
Buildings and other structures	(8.4)	38	4.9	7	6.0	3
Machinery and equipment	9.6	5	13.7	6	40.5	2

See footnotes at end of table.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977—Con.

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Manufactured ice (SIC 2097)		Macaroni and spaghetti (SIC 2098)		Food preparations, n.e.c. (SIC 2099)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	(0.7)	57	(1.0)	30	(6.6)	19
Response coverage ratio[2] (percent)	64.9	(X)	64.3	(X)	67.9	(X)
Machinery	(2.9)	24	(3.5)	29	31.5	7
Response coverage ratio[2] (percent)	68.8	(X)	64.2	(X)	70.7	(X)
Cost of purchased communication services	(0.7)	22	(0.8)	36	7.7	14
Response coverage ratio[2] (percent)	63.6	(X)	66.4	(X)	71.1	(X)
Rental payments	(3.2)	27	(2.7)	15	28.7	6
Buildings and other structures	(1.5)	43	(1.9)	17	13.2	8
Machinery and equipment	(1.7)	17	(0.8)	30	15.5	9
Supplemental labor costs	(9.2)	22	16.2	5	153.9	2
Legal costs	(7.0)	28	7.6	3	69.2	2
Voluntary costs	(2.2)	15	8.6	8	84.7	2
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning or year	(45.4)	20	45.7	9	393.7	3
New capital expenditures	(8.4)	38	3.0	11	34.5	14
Used capital expenditures	-	(X)	-	(X)	(4.8)	21
Retirements	(4.6)	57	2.5	5	10.1	5
End of year	(49.2)	18	46.2	9	422.9	3
Machinery and equipment:						
Beginning of year	74.6	14	130.4	5	916.1	2
New capital expenditures	(12.6)	27	7.3	11	132.9	5
Automobiles, trucks, etc., for highway use[3]	(0.3)	(A)	(1.1)	(A)	(8.7)	(A)
Computers and peripheral data processing equipment[3]	(0.1)	(A)	(0.1)	(A)	(1.3)	(A)
All other[3]	(4.1)	(A)	(4.8)	(A)	(92.9)	22
New machinery and equipment, n.s.k[4]	(8.2)	(A)	(1.3)	(A)	(30.0)	67
Used capital expenditures	0.2	12	-	(X)	(10.6)	21
Retirements	(6.9)	44	(6.1)	17	49.8	6
End of year	80.5	12	131.7	5	1,009.7	2
Total gross value of depreciable assets:						
Beginning of year	(120.0)	15	176.1	5	1,309.7	1
New capital expenditures	(21.0)	28	10.3	10	167.4	6
Used capital expenditures	0.2	14	-	(X)	(15.4)	18
Retirements	(11.5)	49	8.6	12	59.9	5
End of year	129.8	13	177.9	5	1,432.6	1
Depreciation charges during 1977	8.2	12	12.7	5	90.4	3
Buildings and other structures	(2.3)	16	20	7	15.9	6
Machinery and equipment	5.9	14	10.7	6	74.5	3

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

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Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2091, CANNED AND CURED SEAFOODS												
Total	-	255	16.0	147.0	13.8	25.0	113.4	[5]441.0	1 000.4	[3]1 440.6	28.1	311.1
Establishments with an average of—												
1 to 4 employees	E6	72	0.1	0.9	0.1	0.2	0.7	3.5	7.3	10.7	0.1	1.7
5 to 9 employees	E6	36	0.2	2.0	0.2	0.3	1.5	6.0	10.0	16.0	0.2	2.7
10 to 19 employees	E2	29	0.4	3.4	0.3	0.5	2.4	17.0	25.4	42.4	0.6	7.0
20 to 49 employees	-	50	1.5	14.4	1.3	2.3	10.2	47.9	102.3	150.1	2.0	33.4
50 to 99 employees	-	34	2.5	20.7	2.2	3.7	16.1	57.9	108.0	166.5	4.7	34.0
100 to 249 employees	-	23	3.0	25.1	2.6	4.2	19.4	76.1	120.5	196.7	5.2	32.0
250 to 499 employees	-	7	2.2	18.8	2.1	3.7	15.5	47.2	119.9	166.4	4.1	44.8
500 to 999 employees	-	1	(6.0)	(61.6)	(5.1)	(10.0)	(47.5)	(185.3)	(507.0)	(691.8)	(11.2)	(155.5)
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	80	0.3	2.4	0.3	0.5	1.9	8.7	13.9	22.6	0.3	3.7
INDUSTRY 2092, FRESH OR FROZEN PACKAGED FISH												
Total	-	990	34.3	260.8	29.6	49.7	188.9	[5]700.9	1 962.9	[3]2 664.9	56.8	376.7
Establishments with an average of—												
1 to 4 employees	E4	229	0.3	2.7	0.3	0.5	2.1	7.8	23.1	31.0	0.5	3.2
5 to 9 employees	E3	190	1.1	8.7	0.9	1.7	6.1	23.6	62.9	86.5	1.5	10.9
10 to 19 employees	-	165	2.4	18.4	2.0	3.5	13.0	50.9	134.0	184.9	3.8	24.0
20 to 49 employees	-	218	7.0	54.6	6.1	10.3	38.8	135.4	375.2	510.5	8.7	60.1
50 to 99 employees	-	111	7.3	55.3	6.5	10.3	41.4	132.8	382.8	515.3	15.9	56.2
100 to 249 employees	E1	60	8.9	65.7	7.7	12.4	48.9	184.8	501.4	687.7	16.9	105.3
250 to 499 employees	-	13	4.3	34.2	3.6	6.4	23.4	132.5	342.5	475.2	7.1	76.8
500 to 999 employees	E2	4	2.9	21.3	2.5	4.6	15.1	33.2	140.8	173.9	2.4	29.1
Covered by administrative records[2]	E0	166	0.7	5.7	0.7	1.1	4.1	13.7	38.3	51.9	0.9	6.8
INDUSTRY 2095, ROASTED COFFEE												
Total	-	167	10.9	164.8	7.2	15.0	103.2	988.0	4 643.4	5 616.4	41.9	405.3
Establishments with an average of—												
1 to 4 employees	E7	28	(Z)	0.5	(Z)	0.1	0.3	3.3	9.2	12.6	0.1	1.0
5 to 9 employees	E8	21	0.1	1.8	0.1	0.2	1.1	12.7	35.1	48.0	0.4	4.2
10 to 19 employees	E3	29	0.4	5.4	0.3	0.6	3.1	39.6	128.5	170.2	2.8	14.4
20 to 49 employees	-	38	1.3	16.6	0.6	1.3	6.3	83.2	402.7	462.3	3.4	39.6
50 to 99 employees	-	26	1.9	25.4	1.1	2.2	13.1	173.1	673.5	843.6	3.9	60.5
100 to 249 employees	-	18	2.9	43.1	1.9	4.0	25.9	284.6	1 468.6	1 748.1	18.9	109.5
250 to 499 employees	-	3	(4.4)	(72.1)	(3.1)	(6.7)	(52.3)	(411.4)	(1 925.8)	(2 331.7)	(12.3)	(176.1)
500 to 999 employees	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	41	0.2	2.1	0.1	0.2	1.4	11.5	29.5	41.0	0.3	3.4
INDUSTRY 2097, MANUFACTURED ICE												
Total	E1	678	5.3	47.8	3.5	6.7	25.5	106.1	43.6	149.4	16.9	4.4
Establishments with an average of—												
1 to 4 employees	E4	364	0.6	5.7	0.5	0.8	3.2	15.8	6.5	22.3	2.7	0.4
5 to 9 employees	E1	142	1.0	8.6	0.8	1.2	4.3	20.3	9.7	29.9	3.7	0.8
10 to 19 employees	-	109	1.5	13.3	1.0	2.0	7.4	25.7	13.3	38.9	3.6	1.1
20 to 49 employees	-	54	1.5	14.6	1.0	2.0	7.8	33.1	10.2	43.2	4.6	1.0
50 to 99 employees	E1	7	(0.7)	(5.6)	(0.4)	(0.7)	(2.9)	(11.2)	(4.0)	(15.2)	(2.4)	(1.2)
100 to 249 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	238	0.4	3.3	0.3	0.5	1.8	8.2	2.8	11.0	1.4	0.2
INDUSTRY 2098, MACARONI AND SPAGHETTI												
Total	-	205	8.2	96.0	5.7	12.3	56.5	327.0	337.1	662.0	12.6	48.4
Establishments with an average of—												
1 to 4 employees	E8	78	0.1	1.5	0.1	0.2	0.9	4.2	6.2	10.4	0.3	0.7
5 to 9 employees	E5	29	0.2	1.9	0.1	0.3	1.1	4.4	6.4	10.7	0.2	0.7
10 to 19 employees	E2	30	0.4	4.1	0.3	0.8	2.6	11.2	16.8	27.9	0.4	1.5
20 to 49 employees	-	26	0.8	7.6	0.5	1.1	4.6	21.1	19.8	40.6	1.7	2.5
50 to 99 employees	-	16	1.1	12.5	0.8	1.7	7.4	37.1	43.1	80.0	2.1	5.8
100 to 249 employees	-	20	3.3	36.5	2.3	4.8	22.1	135.3	132.6	267.9	4.8	18.4
250 to 499 employees	-	5	(2.3)	(31.9)	(1.5)	(3.4)	(17.8)	(113.7)	(112.3)	(224.4)	(3.1)	(18.8)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	86	0.2	2.4	0.2	0.3	1.4	6.1	8.1	14.3	0.4	1.0
INDUSTRY 2099, FOOD PREPARATIONS, N.E.C.												
Total	-	2 117	71.5	792.6	50.9	97.7	484.1	3 028.1	3 499.2	6 531.0	166.2	534.1
Establishments with an average of—												
1 to 4 employees	E8	888	1.3	14.3	1.2	1.9	8.4	41.4	58.0	109.4	4.6	8.7
5 to 9 employees	E4	249	1.7	17.1	1.2	2.3	10.2	56.7	75.0	131.3	10.7	10.7
10 to 19 employees	E2	311	4.3	43.1	3.1	5.6	24.9	127.7	174.8	302.9	10.3	30.4
20 to 49 employees	E1	328	10.5	105.9	7.6	14.1	61.5	330.1	508.3	833.4	30.0	76.8
50 to 99 employees	-	168	11.7	127.2	8.3	16.1	76.9	484.7	572.5	1 055.0	24.4	94.4
100 to 249 employees	-	123	19.6	213.8	13.6	26.0	122.8	799.2	924.2	1 718.3	50.0	154.8
250 to 499 employees	-	38	13.0	158.2	9.6	18.7	109.5	725.4	661.4	1 385.5	23.0	91.1
500 to 999 employees	-	10	(9.4)	(113.0)	(6.3)	(13.0)	(69.9)	(462.7)	(525.0)	(995.3)	(13.1)	(67.2)
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	813	2.1	21.5	1.7	2.9	12.7	76.1	83.0	159.1	3.2	12.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2091	**Canned and cured seafoods:**										
	Entire industry	255	16.0	147.0	13.8	25.0	113.4	[1]441.0	1 000.4	[1]1 440.6	26.1
	Establishments with 75 percent specialization or more	232	11.2	100.7	9.8	17.9	79.3	300.0	583.7	883.9	18.4
2092	**Fresh or frozen packaged fish:**										
	Entire industry	990	34.3	260.8	29.6	49.7	188.9	[1]700.9	1 962.9	[1]2 664.9	56.8
	Establishments with 75 percent specialization or more	956	32.1	241.6	27.5	46.6	173.2	652.3	1 845.8	2 499.2	49.2
20922	Fresh packaged fish and other seafood:										
	Establishments with this product class primary	349	9.1	59.8	7.9	12.6	44.2	142.9	371.6	514.7	10.4
	Establishments with 75 percent specialization or more in class	307	7.6	48.4	6.6	10.5	35.9	112.1	297.2	409.5	8.2
20923	Frozen packaged fish, excluding shellfish:										
	Establishments with this product class primary	110	7.3	68.7	6.1	10.7	47.2	196.1	685.0	881.1	14.8
	Establishments with 75 percent specialization or more in class	84	5.0	46.7	4.1	7.2	30.8	116.8	469.5	586.0	7.3
20924	Frozen packaged shellfish and other seafood, including soup:										
	Establishments with this product class primary	147	11.8	88.8	10.2	17.8	65.7	257.7	623.2	882.0	17.8
	Establishments with 75 percent specialization or more in class	126	10.1	76.3	8.7	15.3	56.3	227.0	507.9	736.2	13.6
2095	**Roasted coffee:**										
	Entire industry	167	10.9	164.8	7.2	15.0	103.2	988.0	4 643.4	5 616.4	41.9
	Establishments with 75 percent specialization or more	157	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20951	Roasted coffee, whole bean or ground:										
	Establishments with this product class primary	93	8.4	124.1	5.2	10.7	72.5	675.7	3 742.3	4 401.7	33.7
	Establishments with 75 percent specialization or more in class	79	4.7	70.6	3.1	6.3	40.2	438.7	2 697.9	3 125.2	25.0
20952	Concentrated coffee:										
	Establishments with this product class primary	11	2.1	35.6	1.7	3.7	27.5	278.5	815.3	1 095.3	7.2
	Establishments with 75 percent specialization or more in class	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2097	**Manufactured ice:**										
	Entire industry	678	5.3	47.8	3.5	6.7	25.5	106.1	43.6	149.4	16.9
	Establishments with 75 percent specialization or more	664	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2098	**Macaroni and spaghetti:**										
	Entire industry	205	8.2	96.0	5.7	12.3	56.5	327.0	337.1	662.0	12.6
	Establishments with 75 percent specialization or more	202	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2099	**Food preparations, n.e.c.:**										
	Entire industry	2 117	71.5	792.6	50.9	97.7	484.1	3 028.1	3 499.2	6 531.0	166.2
	Establishments with 75 percent specialization or more	1 998	62.3	684.2	44.4	85.0	411.6	2 381.9	2 749.1	5 127.7	150.6
20991	Desserts, ready-to-mix:										
	Establishments with this product class primary	22	3.5	41.4	2.4	5.1	28.8	317.2	398.3	714.9	5.4
	Establishments with 75 percent specialization or more in class	10	0.5	7.2	0.3	0.6	3.2	18.3	27.9	44.6	0.6
20992	Chips (potato, corn, etc.):										
	Establishments with this product class primary	230	26.7	301.3	19.2	37.4	187.3	934.5	994.4	1 929.0	47.9
	Establishments with 75 percent specialization or more in class	219	24.9	280.5	17.8	34.6	172.7	860.2	910.5	1 770.5	44.6
20993	Sweetening syrups and molasses:										
	Establishments with this product class primary	17	0.8	8.6	0.6	1.1	4.8	28.4	35.8	63.8	2.4
	Establishments with 75 percent specialization or more in class	10	0.4	3.4	0.3	0.4	1.6	7.3	12.2	19.6	(D)
20994	Baking powder and yeast:										
	Establishments with this product class primary	23	1.3	21.1	0.9	2.0	15.6	77.6	74.1	152.6	7.0
	Establishments with 75 percent specialization or more in class	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20995	Tea in consumer packages (bags, powdered, etc.):										
	Establishments with this product class primary	26	3.8	43.6	3.1	6.2	34.0	389.5	278.9	664.5	7.0
	Establishments with 75 percent specialization or more in class	20	2.7	31.1	2.3	4.5	24.1	291.3	197.1	488.2	(D)
20996	Vinegar and cider (distilled or fermented vinegar):										
	Establishments with this product class primary	49	1.0	10.2	0.7	1.4	6.5	26.8	43.7	70.8	8.1
	Establishments with 75 percent specialization or more in class	43	0.8	8.7	0.6	1.2	5.8	23.4	35.7	59.4	7.9
20998	Chocolate and cocoa products, except confectionery:										
	Establishments with this product class primary	13	0.8	11.4	0.4	0.8	4.2	56.6	99.1	155.3	2.0
	Establishments with 75 percent specialization or more in class	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20999	Other food preparations, n.e.c.:										
	Establishments with this product class primary	453	24.0	258.7	16.3	30.8	146.0	862.3	1 186.0	2 048.2	55.3
	Establishments with 75 percent specialization or more in class	408	20.6	220.0	14.1	26.7	123.4	692.8	978.2	1 674.4	59.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2091	Canned and cured seafoods[1]	1977	1,440.6	948.2	236.3	256.1	81	1,025.5	948.2	77.3	96
		1972	809.8	544.7	82.1	183.0	87	587.7	544.7	43.0	93
		1967	523.1	401.9	33.4	87.8	92	421.1	401.9	19.2	95
2092	Fresh or frozen packaged fish[1] [2]	1977	2,664.9	2,382.3	77.3	205.3	97	2,459.2	2,382.3	76.9	97
		1972	1,061.6	940.4	34.2	87.0	96	1,016.8	940.4	76.4	92
		1967	557.4	500.3	14.1	43.0	97	529.7	500.3	29.4	94
2095	Roasted coffee	1977	5,616.4	5,127.5	213.3	275.6	96	5,217.8	5,127.5	90.3	98
		1972	2,328.7	2,100.1	145.0	83.6	94	2,163.4	2,100.1	63.3	97
		1967	2,092.2	1,771.7	185.4	135.1	91	1,793.9	1,771.7	22.2	99
2097	Manufactured ice	1977	149.4	138.7	.4	10.3	99	140.6	138.7	1.9	99
		1972	116.4	105.2	-	11.2	100	105.7	105.2	.5	99
		1967	99.5	85.1	-	14.4	100	85.5	85.1	.4	99
2098	Macaroni and spaghetti	1977	662.0	621.7	7.2	33.0	99	751.7	621.7	130.0	83
		1972	349.6	323.4	4.1	22.1	99	355.2	323.4	31.8	91
		1967	266.0	244.8	7.8	13.4	97	248.3	244.8	3.5	98
2099	Food preparations, n.e.c.	1977	6,531.0	5,521.4	671.9	337.8	89	6,616.7	5,521.4	1,095.3	83
		1972	3,647.9	3,089.6	333.7	224.6	90	3,762.1	3,089.6	672.5	82
		1967	2,413.3	2,038.8	227.5	147.0	90	2,501.0	2,038.8	462.2	82

- Represents zero. n.e.c. Not elsewhere classified.

[1] Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2] Data for 1977 are not directly comparable to prior years data. See text, "Description of Industries," for explanation.

Table 5c. Industry-Product Analysis—Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Canned and cured seafoods (SIC 2091)[1]	Fresh or frozen packaged fish (SIC 2092)[1]	Roasted coffee (SIC 2095)	Manufactured ice (SIC 2097)	Macaroni and spaghetti (SIC 2098)	Food preparations n.e.c. (SIC 2099)	Other industries
	Total	(X)	1,440.6	2,664.9	5,616.4	149.4	662.0	6,531.0	(X)
	Primary products	(X)	948.2	2,382.3	5,127.5	138.7	621.7	5,521.4	(X)
	Secondary products	(X)	236.3	77.3	213.3	.4	7.2	671.9	(X)
	Miscellaneous receipts	(X)	256.1	205.3	275.6	10.3	33.0	337.8	(X)
20910	Canned and cured seafood, including soup, except frozen[1]	1,025.5	948.2	(D)	-	-	-	(D)	33.3
2092-	Fresh or frozen packaged fish[1 2]	2,459.2	58.1	2,382.3	-	(D)	(D)	(D)	(D)
20922	Fresh packaged fish and other seafood	460.5	(D)	(D)	-	(D)	(D)	-	(D)
20923	Frozen packaged fish, excluding shellfish	744.4	(D)	715.9	-	-	-	-	(D)
20924	Frozen packaged shellfish and other seafood, including soup	887.6	(D)	846.2	-	-	-	(D)	8.5
20920	Fresh or frozen packaged fish, n.s.k	366.8	-	(D)	-	-	-	(D)	-
2095-	Roasted coffee	5,217.8	-	-	5,127.5	-	-	84.7	5.6
20951	Roasted coffee, whole bean or ground	3,674.5	-	-	3,612.1	-	-	(D)	(D)
20952	Concentrated coffee	1,387.8	-	-	1,361.0	-	-	(D)	(D)
20950	Roasted coffee, n.s.k	155.5	-	-	154.4	-	-	(D)	(D)
20970	Manufactured ice (can, block, cube, crushed, etc.)	140.6	-	(D)	-	138.7	-	(D)	1.3
20980	Macaroni, spaghetti, and noodles	751.7	-	(D)	(D)	-	621.7	(D)	(D)
2099-	Food preparations, n.e.c	6,616.7	(D)	-	(D)	(D)	3.3	5,521.4	949.2
20991	Desserts, ready-to-mix	412.9	-	-	(D)	-	(D)	314.7	(D)
20992	Chips (potato, corn, etc.)	1,797.4	-	-	-	(D)	-	1,731.9	(D)
20993	Sweetening sirups and molasses	296.8	-	-	(D)	-	-	(D)	175.5
20994	Baking powder and yeast	170.2	-	-	-	-	-	156.6	13.6
20995	Tea in consumer packages (bags, powdered, etc.)	616.8	-	-	(D)	-	-	556.0	(D)
20996	Vinegar and cider (distilled or fermented vinegar)	122.8	-	-	-	-	-	67.3	55.5
20998	Chocolate and cocoa products, except confectionery	207.5	-	-	3.7	-	-	165.3	38.4
20999	Other food preparations, n.e.c	2,159.8	(D)	-	45.0	.1	(D)	1,718.5	395.6
20990	Food preparations, n.e.c., n.s.k	832.5	-	-	(D)	-	(D)	(D)	123.7
	Other shipments by 4-digit product group:								
2017-	Processed poultry and eggs	(X)	-	-	-	-	-	(D)	(X)
2022-	Cheese, natural and processed	(X)	-	-	(D)	-	-	(D)	(X)
2023-	Condensed and evaporated milk	(X)	-	-	(D)	-	-	17.6	(X)
2032-	Canned specialties	(X)	(D)	-	(D)	-	-	18.3	(X)
2033-	Canned fruits and vegetables	(X)	(D)	(D)	(D)	-	(D)	18.8	(X)
2034-	Dehydrated fruits, vegetables, and soups	(X)	-	-	(D)	-	(D)	30.8	(X)
2035-	Pickles, sauces, and salad dressings	(X)	(D)	(D)	(D)	-	(D)	99.2	(X)
2037-	Frozen fruits and vegetables	(X)	-	(D)	-	-	-	9.3	(X)
2038-	Frozen specialties	(X)	(D)	(D)	-	-	-	6.2	(X)
2044-	Milled rice and byproducts	(X)	-	-	(D)	-	-	(D)	(X)
2045-	Blended and prepared flour	(X)	-	-	(D)	-	-	(D)	(X)
2046-	Wet corn milling products	(X)	-	-	-	-	-	(D)	(X)
2047-	Dog, cat, and other pet food	(X)	155.2	(D)	-	-	-	-	(X)
2051-	Bread, cake, and related products	(X)	-	-	-	-	-	(D)	(X)
2052-	Cookies and crackers	(X)	-	-	-	-	(D)	(D)	(X)
2065-	Confectionery products	(X)	-	-	-	-	(D)	(D)	(X)
2066-	Chocolate and cocoa products	(X)	-	-	-	-	-	(D)	(X)
2077-	Animal and marine fats and oils	(X)	17.5	.6	-	-	-	(D)	(X)
2079-	Shortening and cooking oils	(X)	-	-	(D)	-	-	(D)	(X)
2086-	Bottled and canned soft drinks	(X)	-	(D)	(D)	(D)	-	4.6	(X)
2087-	Flavoring extracts and sirups, n.e.c	(X)	-	-	(D)	-	(D)	(D)	(X)
2649-	Converted paper products, n.e.c	(X)	-	-	(D)	-	-	-	(X)
2833-	Medicinals and botanicals	(X)	-	-	(D)	-	-	-	(X)
2842-	Polishes and sanitation goods	(X)	-	-	-	-	-	(D)	(X)
2899-	Chemical preparations, n.e.c	(X)	-	-	(D)	(D)	-	(D)	(X)
	Miscellaneous receipts:								
93000 00	Contract work	(X)	1.5	10.8	(D)	1.0	4.6	22.7	(X)
99980 98	Other miscellaneous receipts	(X)	.2	3.7	(D)	4.7	.6	7.5	(X)
99989 00	Resales	(X)	254.4	190.8	263.3	4.6	27.8	307.5	(X)

See footnotes at end of table.

Table 5c. Industry-Product Analysis—Shipments by Product Class and Industry: 1977—Con.

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2091-	2032 Canned specialties	(D)
2092-	2038 Frozen specialties	(D)
2098-	2022 Cheese, natural and processed	(D)
	2032 Canned specialties	(D)
	2035 Pickles, sauces, and salad dressings	(D)
	2038 Frozen specialties	(D)
	2043 Cereal breakfast foods	(D)
2099-	2013 Sausages and other prepared meats	(D)
	2022 Cheese, natural and processed	(D)
	2023 Condensed and evaporated milk	(D)
	2024 Ice cream and frozen desserts	(D)
	2026 Fluid milk	(D)
	2032 Canned specialties	(D)
	2033 Canned fruits and vegetables	(D)
2099-	2034 Dehydrated fruits, vegetables, soups	(D)
	2035 Pickles, sauces, and salad dressings	(D)
	2037 Frozen fruits and vegetables	(D)
	2038 Frozen specialties	7.4
	2041 Flour and other grain mill products	(D)
	2043 Cereal breakfast foods	(D)
	2045 Blended and prepared flour	22.0
	2046 Wet corn milling products	(D)
	2047 Dog, cat, and other pet food	(D)
	2051 Bread, cake, and related products	(D)
	2052 Cookies and crackers	(D)
	2065 Confectionery products	55.0
	2066 Chocolate and cocoa products	(D)
	2079 Shortening and cooking oils	79.0
	2086 Bottles and canned soft drinks	(D)
	2087 Flavoring extracts and sirups, n.e.c	118.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data for 1977 are not directly comparable to prior years data. See text, "Description of Industries," for explanation.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with production of $100,000 or more	Production[1]		Production	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	CANNED AND CURED SEAFOODS						
2091- --	Total	.....	(NA)	(X)	1,025.5	(X)	587.7
20910 --	Canned and cured seafoods, including soup (except frozen):						
	Canned fish and other seafoods:						
20910 12	Tuna	Million lb....	8	323.6	410.0		
20910 13	Salmon		28	**134.6	185.2		
20910 14	Sardines		9	(S)	19.7		
20910 15	Clams		8	23.3	28.2		
20910 16	Shrimp		17	23.3	62.3	(NA)	453.9
20910 19	Other canned fish and seafoods, including gefilte fish, fish roe, fish cakes, etc. (except soups, stews, and chowders)		35	**71.3	67.9		
20910 31	Canned seafood soups, stews, and chowders (clam chowder, oyster stew, turtle soup, etc.)		11	*133.5	65.8	(NA)	41.9
	Cured fish and other seafoods:						
20910 51	Smoked fish		8	(S)	26.0	6.3	13.7
20910 71	Other smoked fish (herring, whitefish, chub, cisco, etc.)		17	(S)	24.7	8.1	7.4
20910 82	Salted and pickled fish, including sun dried	Million lb....	3	(S)	20.8	7.4	6.4
20910 00	Canned and cured seafoods, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	91.7	(X)	46.7
20910 02	Canned and cured seafoods, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	23.3	(X)	17.7
	FRESH OR FROZEN PACKAGED FISH						
2092- --	Total	Million lb....	(NA)	(NA)	[3]2,459.2	1,233.0	1,016.8
20922 --	Fresh packaged fish and other seafood		(NA)	(NA)	460.5	189.6	135.2
20922 13	Fresh packaged fish, excluding shellfish		93	(S)	152.5	96.4	67.0
	Fresh packaged shellfish:						
	Crabmeat:						
20922 21	Blue and rock		43	(S)	33.4		
20922 22	Other		21	(S)	30.7		
20922 23	Shrimp		18	(S)	22.6	78.7	58.3
20922 24	Oysters		100	(S)	117.5		
20922 25	Clams		31	(S)	49.9		
20922 26	Other packaged shellfish		26	(S)	31.0		
20922 00	Fresh packaged fish and other seafood, n.s.k		(NA)	(NA)	22.9	14.5	9.9
20923 --	Frozen packaged fish, excluding shellfish		(NA)	(NA)	744.4	518.2	280.1
	Ground fish (cod, cusk, haddock, hake, Atlantic Ocean perch, Atlantic pollock, and whiting):						
20923 21	Fillets and steaks		27	(S)	90.1		
20923 22	Sticks and portions		22	380.0	344.1		
20923 23	Other		19	(S)	40.3		
	Flounder:						
20923 24	Fillets and steaks		22	(S)	20.4		
20923 25	Other		7	(S)	9.4	518.2	314.7
	All other frozen packaged fish:						
20923 26	Fillets and steaks		27	(S)	53.7		
20923 28	Sticks and portions		7	42.7	46.5		
20923 29	Other		22	*78.6	109.4		
20923 00	Frozen packaged fish, excluding shellfish, n.s.k		(NA)	(NA)	30.5		
20924 --	Frozen packaged shellfish and other seafood, including soup		(NA)	(NA)	887.6	329.1	415.8
	Shrimp:						
20924 21	Headless, raw		36	(S)	99.3		
20924 22	Peeled, raw		25	(S)	50.1		
20924 23	Peeled, cooked		33	28.6	66.7	193.0	274.4
20924 24	Breaded		34	*90.8	189.8		
20924 25	Other (100 percent shrimp products)		15	*14.0	24.1		
20924 26	Lobster tails		7	(S)	5.8		
	Crabs:						
20924 31	Blue and rock meat		13	(S)	12.9		
20924 32	Dungeness meat		15	*3.0	13.3	81.3	98.3
	King:						
20924 33	Cooked meat		9	23.4	50.2		
20924 34	Sections		12	29.6	84.5		
20924 35	Other crabs (snow, stone, etc.)	Million lb....	13	42.4	66.2		

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	FRESH OR FROZEN PACKAGED FISH--Con.						
	Frozen packaged shellfish and other seafood, including soup--Con.						
20924 36	Other frozen packaged shellfish, including oysters, clams, and parts of crabs and lobsters, n.e.c.	Million lb.	34	48.6	86.0	-	-
20924 19	Other frozen seafoods (soups, stews, chowders, dinners, pies, fish and shrimp cakes, etc.)		32	(S)	58.1	54.8	43.1
20924 00	Frozen packaged shellfish and other seafood, including soup, n.s.k.		(NA)	(NA)	80.6	(X)	(X)
20920 00	Fresh or frozen packaged fish, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(NA)	314.9	[4]160.4	123.6
20920 02	Fresh or frozen packaged fish, n.s.k., typically for establishments with less than 5 employees (see note)	Million lb.	(NA)	(NA)	51.9	[4]35.7	27.5
	ROASTED COFFEE						
2095- --	Total		(NA)	(X)	5,217.8	(X)	2,163.4
20951 --	Roasted coffee, whole bean or ground	Million lb.	(NA)	1,262.7	3,674.5	1,779.6	1,517.7
20951 11	Whole bean		13	115.0	332.6	115.2	87.1
20951 15	Ground		63	1,147.7	3,330.9	1,658.0	1,425.2
20951 00	Roasted coffee, n.s.k		4	(X)	11.0	6.4	5.4
20952 --	Concentrated coffee		(NA)	314.7	1,387.8	200.5	598.8
20952 16	Instant, including spray dried and freeze dried						
20952 18	Other concentrated coffee, including frozen or liquid concentrates and extracts		24	314.7	1,387.8	200.5	598.8
20952 00	Concentrated coffee, n.s.k	Million lb.	-	-	-	-	-
20950 00	Roasted and concentrated coffee, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	114.5	(X)	36.2
20950 02	Roasted and concentrated coffee, n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	41.0	(X)	10.7
	MANUFACTURED ICE						
2097- --	Total		(NA)	(X)	140.6	(X)	105.7
20970 --	Manufactured ice:						
20970 11	Can or block ice	1,000 s. tons.	45	*1,113.9	29.5	2,386.1	27.6
20970 51	Cubed, crushed, or other processed ice	1,000 s. tons.	65	*647.5	52.1	763.5	33.7
20970 00	Manufactured ice, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	47.9	(X)	24.3
20970 02	Manufactured ice, n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	11.0	(X)	20.1
	MACARONI AND SPAGHETTI						
2098- --	Total	Million lb.	(NA)	2,238.5	751.7	1,754.5	355.2
20980 --	Macaroni, spaghetti, and noodles:						
20980 11	Macaroni, spaghetti, vermicelli, and other macaroni products of all types, except canned		44	**1,784.5	547.2	1,363.8	259.9
20980 51	Noodle products of all shapes, sizes, and types, except canned		47	329.4	162.1	287.0	73.7
20980 00	Macaroni and spaghetti, n.s.k., typically for establishments with 10 employees or more (see note)		(X)	[4]84.9	28.0	[4]51.4	10.4
20980 02	Macaroni and spaghetti, n.s.k., typically for establishments with less than 10 employees (see note)	Million lb.	(X)	[4]39.7	14.3	[4]52.3	11.2

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	FOOD PREPARATIONS, N.E.C.						
2099---	Total	.....	(NA)	(X)	6,616.7	(X)	3,762.1
20991 --	Desserts (ready-to-mix)	Million lb....	(NA)	(X)	412.9	483.0	267.2
	Cornstarch base:						
20991 13	Consumer sizes (under 1 lb)		8	117.6	99.8	131.5	75.1
20991 15	Commercial sizes (1 lb and over)		8	41.9	13.4	39.2	13.8
	Gelatin base:						
20991 53	Consumer sizes (under 1 lb)		11	215.5	180.6	164.1	94.2
20991 55	Commercial sizes (1 lb and over)		19			59.0	21.4
	Other base:						
20991 93	Consumer sizes (under 1 lb)		4	87.3	95.6	73.1	54.0
20991 95	Commercial sizes (1 lb and over)		9				
20991 00	Desserts (ready-to-mix), n.s.k.		(NA)	(X)	23.5	[5]16.1	8.7
20992 --	Chips (potato, corn, etc.)		(NA)	(X)	1,797.4	1,478.0	1,042.1
	Potato chips and sticks:						
20992 12	Plain		95	740.6	790.5	742.8	523.4
20992 14	Flavored		77	*151.1	171.7	125.0	100.6
20992 61	Corn chips, curls, and related products		77	**672.1	655.2	434.6	283.6
20992 98	Other chips, sticks, etc. (bacon rinds; popcorn, except candied; and other salted snacks, except crackers)		61	(S)	147.0	142.7	111.5
20992 00	Chips, n.s.k.		(NA)	(X)	33.0	[4]32.9	23.0
20993 --	Sweetening syrups and molasses		(NA)	(X)	296.8	845.5	167.3
20993 25	Containing corn syrup		44	637.1	249.1	579.6	111.6
20993 27	Not containing corn syrup		21	124.7	33.2	228.4	48.2
20993 00	Sweetening syrups and molasses, n.s.k.		(NA)	(X)	14.5	37.5	7.5
20994 --	Baking powder and yeast		(NA)	(X)	170.2	470.3	82.6
20994 13	Baking powder		6	64.7	21.9	51.8	7.8
20994 23	Compressed yeast	Million lb....	6	426.3	105.3	321.4	49.5
20994 34	Active dry yeast	Million lb (dry basis).	6	20.6	23.6	16.3	12.5
20994 55	Other yeast products (brewers', primary grown yeast, including torule; extracts; etc.)	Million lb (dry basis).	13	*46.5	18.7	56.3	7.8
20994 00	Baking powder and yeast, n.s.k.	Million lb....	(NA)	(X)	.7	[4]24.5	5.0
20995 --	Tea in consumer packages		(NA)	(X)	616.8	175.7	359.8
20995 82	Packaged in tea bags		27	85.8	279.2	102.6	169.2
20995 83	Powdered		12	97.8	213.4	48.4	142.2
20995 84	Other	Million lb....	19	*(X)	124.2	24.7	48.4
20996 --	Vinegar and cider	Million gal...	(NA)	(X)	122.8	174.2	80.6
20996 11	Cider		13	14.8	24.0	31.0	15.1
20996 51	Vinegar, fermented (reporting on basis equivalent to 40 grain)		27	(S)	34.0	53.6	35.9
20996 57	Vinegar, distilled (reporting on basis equivalent to 100 grain)		18	(S)	55.4	74.6	24.1
20996 00	Vinegar and cider, n.s.k.	Million gal...	(NA)	(X)	9.4	[4]15.0	5.5
20998 --	Chocolate and cocoa products, except confectionery (made from purchased chocolate or cocoa) (see also product class 20668)	Million lb....	(NA)	230.4	207.5	183.7	55.9
20999 --	Other food preparations, n.e.c.	.....	(NA)	(X)	2,159.8	(X)	1,358.9
20999 11	Coconut, sweetened, creamed, and toasted	Million lb....	5	59.7	49.1	([6])	([6])
20999 25	Blended honey, including churned		13	(S)	49.0	88.9	33.7
	Spices:						
	Pepper, white and black:						
20999 31	Consumer sizes (under 1 lb)		18	18.5	36.5	29.9	43.0
20999 33	Commercial sizes (1 lb and over)		15	**15.1	14.5	11.2	9.8
	Other spices:						
20999 38	Consumer sizes (under 1 lb)		26	**108.2	185.8	137.9	171.5
20999 39	Commercial sizes (1 lb and over)		37	**335.3	213.5	[7]298.1	121.1
	Peanut butter:						
20999 44	Consumer sizes		32	541.8	403.1	510.7	234.3
20999 46	Commercial sizes and bulk		21	*53.5	26.6	50.3	16.1
20999 51	Pectin (100 grade, dry basis)	Million lb....	3	5.1	11.9	6.7	10.0
	Perishable prepared foods sold in bulk or packages (not frozen):						
20999 63	Salads	.....	61	(X)	[1]27.2	(X)	63.4
20999 65	Sandwiches, made from bread	1,000 dozen...	45	(S)	74.3	17.6	67.2
20999 66	Whipped topping, nonbutterfat base	Million qt....	21	(X)	46.3	86.6	44.6
20999 68	Other perishable prepared foods, including meat and poultry pies, other cooked foods, etc	.....	138	(X)	367.7	(X)	178.3

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972 — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	FOOD PREPARATIONS, N.E.C.--Con.						
20999 --	Other food preparations, n.e.c.--Con.						
20999 85	Unpopped corn in consumer packages	Million lb.	11	(S)	52.4	333.4	27.6
20999 91	Cracker sandwiches, made from purchased crackers	↕	1	(NA)	([8])	(NA)	([6])
20999 92	Frosting mixes	Million lb.	8	371.8	106.3	166.6	65.7
20999 00	Other food preparations, n.e.c., n.s.k.		(NA)	(X)	[8]395.4	(X)	[6]272.6
20990 98	Food preparations, n.e.c.		(NA)	(X)	161.5	-	-
20990 00	Food preparations, n.e.c., n.s.k., typically for establishments with 10 employees or more (see note)		(NA)	(X)	511.9	(X)	[5]223.0
20990 02	Food preparations, n.e.c., n.s.k., typically for establishments with less than 10 employees (see note)		(NA)	(X)	159.1	(X)	124.7

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]Data for 1977 are not directly comparable to prior years data. See text, "Description of Industries," for explanation.

[4]Quantity was estimated based on quantity-value relationship of all other products in this industry.

[5]Quantity was estimated based on quantity-value relationships of all other products in this product class.

[6]For 1972, product codes 20999 11 and 20999 91 were included with product code 20999 00 to avoid disclosing operations of individual companies.

[7]30 percent or more of quantity was estimated.

[8]For 1977, product code 20999 91 was included with product code 20999 00 to avoid disclosing operations of individual companies.

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20922, FRESH PACKAGED FISH AND OTHER SEAFOOD[1] [2]		
United States	460.5	135.2
New England Division:		
Maine	10.7	(NA)
Massachusetts	71.3	EE
Middle Atlantic Division:		
New York	6.9	BB
New Jersey	11.3	3.2
South Atlantic Division:		
Maryland	37.9	8.2
Virginia	75.3	21.1
South Carolina	4.1	AA
Georgia	7.8	3.1
Florida	31.3	7.5
West South Central Division:		
Louisiana	21.4	BB
Pacific Division:		
Washington	31.7	9.5
Oregon	16.4	CC
California	32.8	BB
20923, FROZEN PACKAGED FISH, EXCLUDING SHELLFISH[1] [2]		
United States	744.4	314.7
New England Division:		
Maine	27.0	EE
Massachusetts	188.8	81.0
South Atlantic Division:		
Florida	12.7	BB
Pacific Division:		
Washington	63.2	14.0
Oregon	10.5	3.5
California	73.8	14.7
Alaska	74.2	BB
20924, FROZEN PACKAGED SHELLFISH AND OTHER SEAFOOD, INCLUDING SOUP[1]		
United States	887.6	415.8
New England Division:		
Massachusetts	20.2	22.0
Middle Atlantic Division:		
New Jersey	6.5	(NA)
South Atlantic Division:		
Maryland	19.4	5.3
Virginia	16.0	9.4
Florida	169.9	103.0
East South Central Division:		
Mississippi	29.0	(NA)
West South Central Division:		
Louisiana	38.8	10.6
Texas	57.9	101.7
Pacific Division:		
Washington	115.4	22.1
Oregon	25.6	CC
California	60.9	13.9
Alaska	164.2	31.8
20951, ROASTED COFFEE, WHOLE BEAN OR GROUND		
United States	3,674.5	1,517.7
New England Division:		
Massachusetts	38.7	12.3
Middle Atlantic Division:		
New York	199.2	GG
New Jersey	621.1	337.4
East North Central Division:		
Ohio	133.8	GG
Illinois	101.2	GG
Michigan	22.1	EE
20951, ROASTED COFFEE, WHOLE, BEAN OR GROUND--Con.		
West North Central Division:		
Minnesota	16.2	EE
West South Central Division:		
Louisiana	340.3	GG
Texas	320.3	GG
Pacific Division:		
California	657.0	230.9
20952, CONCENTRATED COFFEE		
United States	1,387.8	598.8
Middle Atlantic Division:		
New Jersey	534.7	GG
East North Central Division:		
Illinois	5.4	(NA)
Pacific Division:		
California	131.3	FF
20991, DESSERTS, READY-TO-MIX		
United States	412.9	267.2
Middle Atlantic Division:		
New York	23.0	12.2
East North Central Division:		
Illinois	121.9	66.3
Pacific Division:		
California	55.6	20.4
20992, CHIPS (POTATO, CORN, ETC.)		
United States	1,797.4	1,042.1
New England Division:		
Maine	10.8	CC
Massachusetts	42.2	29.8
Middle Atlantic Division:		
New York	59.1	EE
Pennsylvania	234.4	117.2
East North Central Division		
Ohio	81.6	59.8
Indiana	34.1	23.3
Illinois	90.3	60.7
Michigan	76.1	46.8
West North Central Division:		
Minnesota	23.0	15.7
Iowa	29.0	14.4
Missouri	31.4	19.6
Nebraska	12.7	CC
South Atlantic Division:		
Maryland	4.5	EE
North Carolina	70.3	14.6
East South Central Division:		
Kentucky	43.0	EE
Tennessee	145.7	61.7
West South Central Division:		
Louisiana	5.8	7.9
Texas	194.3	125.1
Mountain Division:		
Colorado	16.8	13.0
Pacific Division:		
California	194.5	151.3

See footnotes at end of table.

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972 — Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
20993, SWEETENING SYRUPS AND MOLASSES		
United States	296.8	167.3
Middle Atlantic Division:		
New York	10.1	AA
New Jersey	12.2	6.3
East North Central Division:		
Ohio	3.2	(NA)
Indiana	42.9	EE
Illinois	74.5	38.8
Pacific Division:		
Washington	2.7	BB
California	30.9	13.0
20994, BAKING POWDER AND YEAST		
United States	170.2	82.6
Middle Atlantic Division:		
New York	5.9	EE
East North Central Division:		
Illinois	28.1	14.0
Wisconsin	30.3	EE
Pacific Division:		
California	17.6	CC
20995, TEA IN CONSUMER PACKAGES (BAGS, POWDERED, ETC.)		
United States	616.8	359.8
Middle Atlantic Division:		
New York	73.6	60.9
New Jersey	36.7	FF
South Atlantic Division:		
Florida	7.5	BB
East South Central Division:		
Tennessee	3.6	(NA)
Pacific Division:		
California	27.8	16.0
20996, VINEGAR AND CIDER (DISTILLED OR FERMENTED VINEGAR)		
United States	122.6	80.6
Middle Atlantic Division:		
New York	16.4	7.7
Pennsylvania	12.5	CC
East North Central Division:		
Indiana	4.8	3.3
Illinois	3.3	BB
Michigan	16.4	11.7
East South Central Division:		
Tennessee	3.0	AA
Pacific Division:		
Washington	2.1	AA
California	25.3	17.6

Product class and geographic area	Value of product shipments	
	1977	1972
20998, CHOCOLATE AND COCOA PRODUCTS, EXCEPT CONFECTIONERY		
United States	207.5	55.9
Middle Atlantic Division:		
New York	13.2	8.7
East North Central Division:		
Ohio	8.1	AA
Illinois	37.0	17.8
Pacific Division:		
California	11.5	BB
20999, OTHER FOOD PREPARATIONS, N.E.C.		
United States	2,159.8	1,358.9
New England Division:		
Massachusetts	29.4	19.1
Middle Atlantic Division:		
New York	93.9	118.2
New Jersey	64.1	65.3
Pennsylvania	101.7	51.4
East North Central Division:		
Ohio	105.7	80.4
Indiana	90.1	36.6
Illinois	270.6	195.8
Michigan	42.1	28.0
Wisconsin	71.5	11.3
West North Central Division:		
Minnesota	32.1	27.8
Iowa	51.4	18.9
Missouri	65.4	10.7
Kansas	6.7	CC
South Atlantic Division:		
Maryland	78.1	63.6
Virginia	105.9	64.9
West Virginia	2.8	(NA)
North Carolina	21.5	EE
Georgia	44.0	47.0
Florida	18.8	24.4
East South Central Division:		
Kentucky	77.9	32.7
Tennessee	30.1	14.4
Alabama	18.8	EE
Mississippi	6.1	AA
West South Central Division:		
Arkansas	8.1	AA
Louisiana	6.3	3.9
Oklahoma	3.0	BB
Texas	111.4	52.1
Mountain Division:		
Colorado	9.0	5.3
New Mexico	4.1	1.8
Arizona	2.8	AA
Nevada	7.2	(NA)
Pacific Division:		
Washington	23.6	10.8
Oregon	7.3	3.8
California	432.3	259.1
Hawaii	6.8	2.1

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.

(NA) Not available. N.E.C. Not elsewhere classified.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data for 1977 are not directly comparable to prior years data. See text, "Description of Industries," for explanation.

Table 6c. **Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977**

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
20910	Canned and cured seafood, including soup, except frozen[2]	1,025.5	945.7	741.5	758.4	704.0	587.8	421.1	384.4
2092-	Fresh or frozen packaged fish[2 3]	2,459.2	1,568.0	1,275.3	1,171.3	1,170.4	1,016.8	529.7	362.8
20922	Fresh packaged fish and other seafood	460.5	(219.1)	(162.8)	(121.1)	143.3	135.2	66.6	76.6
20923	Frozen packaged fish, excluding shellfish	744.4	624.2	464.8	447.4	390.2	314.7		
20924	Frozen packaged shellfish and other seafood, including soup	887.6	602.7	527.0	491.2	516.8	415.8	463.1	286.2
20920	Fresh or frozen packaged fish, n.s.k	366.8	(122.0)	(120.7)	(111.6)	120.1	151.1		
2095-	Roasted coffee	5,217.8	4,275.1	2,806.0	2,440.4	2,405.3	2,163.4	1,793.9	1,602.7
20951	Roasted coffee, whole bean or ground	3,674.5	2,947.3	1,901.1	1,752.3	1,676.6	1,517.7	1,375.3	1,206.4
20952	Concentrated coffee	1,387.8	1,318.3	906.8	672.5	679.1	598.8	365.6	396.3
20950	Roasted coffee, n.s.k	155.5	(S)	(4)	(15.6)	49.6	46.9	53.0	(X)
20970	Manufactured ice (can, block, cube, crushed, etc.)	140.6	138.9	115.4	112.1	110.1	105.7	85.8	94.8
20980	Macaroni, spaghetti, and noodles	751.7	638.1	586.4	565.4	450.7	355.2	248.3	215.9
2099-	Food preparations, n.e.c	6,616.7	6,194.7	5,530.7	4,943.0	4,269.5	3,762.1	2,501.0	1,962.0
20991	Desserts, ready-to-mix	412.9	545.1	464.5	379.3	239.1	267.2	218.2	191.6
20992	Chips (potato, corn, etc.)	1,797.4	1,741.8	1,558.2	1,433.6	1,232.7	1,042.1	648.0	466.0
20993	Sweetening sirups and molasses	296.8	303.0	326.3	255.4	174.0	167.3	138.8	136.5
20994	Baking powder and yeast	170.2	122.1	115.2	107.2	91.5	82.6	79.0	80.8
20995	Tea in consumer packages (bags, powdered, etc.)	616.8	563.9	470.8	434.6	406.6	359.8	254.1	181.2
20996	Vinegar and cider (distilled or fermented vinegar)	122.8	(126.0)	(106.5)	94.3	95.4	80.6	56.7	53.9
20998	Chocolate and cocoa products, except confectionery	207.5	92.3	76.6	66.7	59.4	55.9	52.2	51.1
20999	Other food preparations, n.e.c	2,159.8	2,436.6	2,135.0	1,863.8	1,610.0	1,358.9	819.2	702.1
20990	Food preparations, n.e.c., n.s.k	832.5	(263.9)	(277.6)	(308.1)	360.8	347.7	234.8	98.9

(NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[3]Data for 1977 are not directly comparable to prior years data. See text, "Description of Industries," for explanation.

[4]Withheld because estimated figure is negative. This is consequence of using difference method of estimation (see estimating procedures in appendix B) and of improved establishment reporting that resulted in changing classification of shipments from n.s.k. code for 1972 Census to specified 5-digit product classes for this year. Four-digit total is best estimate, even though smaller than sum of 5-digit values.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2091, CANNED AND CURED SEAFOODS					
	Materials, ingredients, containers, and supplies	.....	(X)	733.9	(X)	400.9
	Finfish, round:					
091212	Tuna	1,000 s. tons...	377.5	312.4		
091213	Salmon		(S)	104.9	368.2	253.8
091214	Sardine		(S)	4.6		
091217	Other finfish, round		(S)	33.4		
	Shellfish:					
091312	Shrimp		(S)	51.4		
091313	Crabs		**13.6	12.4		
091314	Oysters		(S)	5.8	80.5	32.6
091315	Clams		(S)	25.2		
091316	Other shellfish	1,000 s. tons...	.1	.7		
207006	Fats and oils, all types (purchased as such)	Million lb.....	(S)	7.9	40.5	6.1
	Containers:					
260091	Paper and paperboard containers	.....	(X)	11.8	(X)	7.9
340001	Metal containers	.....	(X)	57.1	(X)	29.4
970099	All other materials, ingredients, containers, and supplies	.....	(X)	43.5	(X)	42.4
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	62.8	(X)	28.7
	INDUSTRY 2092, FRESH OR FROZEN PACKAGED FISH					
	Materials, ingredients, containers, and supplies	.....	(NA)	[3]1,725.8	(NA)	698.1
	Finfish, round:					
091212	Tuna	1,000 s. tons..	(S)	4.2		
091213	Salmon		*43.5	79.7		
091214	Sardine		-	-		
091215	Ground fish (cod, cusk, haddock, hake, Atlantic Ocean perch, Atlantic pollock, and whiting)		(S)	142.4	372.6	216.8
091216	Flounder		(S)	30.9		
091217	Other finfish, round		(S)	92.4		
209231	Frozen fish blocks		150.7	233.2		
	Shellfish:					
091312	Shrimp		(S)	316.9		
091313	Crab		(S)	175.1		
091314	Oysters		(S)	91.7	414.8	295.5
091315	Clams		(S)	44.7		
091316	Other shellfish	1,000 s. tons..	(S)	41.1		
207006	Fats and oils, all types (purchased as such)	Million lb.....	37.7	11.2	39.9	5.9
	Containers:					
260091	Paper and paperboard containers	.....	(X)	44.0	(X)	(4)
340001	Metal containers	.....	(X)	5.7	(X)	3.7
970099	All other materials and components, parts, containers, and supplies	.....	(X)	109.3	(X)	[3]72.8
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	303.3	(X)	103.4
	INDUSTRY 2095, ROASTED COFFEE					
	Materials, ingredients, containers, and supplies	.....	(X)	4,397.3	(X)	1,420.1
017921	Green coffee	1,000 cwt.....	17,536.8	3,903.6	24,247.5	1,113.9
322101	Glass containers	1,000 gross....	3,399.6	55.7	4,099.2	36.4
265001	Paperboard boxes and containers	.....	(X)	67.1		
970099	All other materials, ingredients, containers, and supplies consumed, n.s.k.	.....	(X)	272.6	(X)	240.1
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	98.3	(X)	29.7
	INDUSTRY 2097, MANUFACTURED ICE					
	(Data were not collected)					
	INDUSTRY 2098, MACARONI AND SPAGHETTI					
	Materials, ingredients, containers, and supplies	.....	(NA)	299.7	(NA)	174.4
204115	Semolina and durum flour	1,000 cwt.....	*15,933.7	144.3	11,905.7	90.7
204119	Farina and other wheat flour	1,000 cwt.....	657.2	5.4	1,378.6	9.4
265001	Paperboard boxes and containers	.....	(X)	39.7		
970099	All other materials and components, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	52.0	(X)	74.3
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	58.3		

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2099, FOOD PREPARATIONS, N.E.C.					
	Materials, ingredients, containers, and supplies	.....	(X)	3,153.6	(X)	1,653.0
016101	Fresh vegetables	1,000 s. tons..	*1,317.7	146.0	1,752.0	127.1
017011	Fresh fruits	1,000 s. tons..	63.2	4.6	(NA)	8.9
013921	Peanuts, in shell	Million lb.....	3.8	1.7	(NA)	1.1
013923	Shelled peanuts		439.6	148.8	385.6	92.3
204602	Corn syrup		*183.9	17.8	196.9	9.8
207006	Fats and oils, all types (purchased as such)	Million lb.....	739.1	205.3	665.8	112.2
204110	Wheat flour	1,000 cwt.....	(D)	(D)	1,117.4	7.5
206011	Sugar (cane and beet) in terms of sugar solids		7,496.9	114.6	6,290.0	75.3
017921	Green coffee	1,000 cwt.....	(D)	(D)	690.1	32.8
322101	Glass containers	1,000 gross....	*6,446.0	98.3	7,494.0	59.2
203411	Dried fruits	1,000 s. tons..	2.3	2.0		
206601	Chocolate (compounds, cocoa, chocolate liquor, etc.)	Million lb.....	71.0	100.0		
203416	Dried and dehydrated potatoes	Million lb.....	76.5	20.7		
265001	Paperboard boxes and containers	.....	(X)	186.3	(X)	910.7
341101	Metal cans	.....	(X)	41.0		
970099	All other materials, ingredients, containers and supplies	.....	(X)	1,438.5		
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	.....	(X)	564.2	(X)	216.1

- Represents zero. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * Indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[3]Data for 1977 are not directly comparable to prior years data. See text, "Description of Industries," for explanation.

[4]For 1972, material code 260091 was included with material code 970099.

Tobacco Products

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DESCRIPTION OF INDUSTRIES

TOBACCO PRODUCTS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title	
2111	Cigarettes
2121	Cigars
2131	Chewing and Smoking Tobacco
2141	Tobacco Stemming and Redrying

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2111, CIGARETTES

This industry comprises establishments primarily engaged in the manufacture of cigarettes. (Establishments primarily engaged in the manufacture of cigars are classified in industry 2121). For a detailed list of products of industry 2111, refer to table 6a, product codes 21110 13 to 21110 57.

The total value of shipments for establishments classified in the Cigarettes industry amounted to $6,377.4 million in 1977, an increase of 70 percent from 1972. The value of shipments of products classified as primary to the industry was $6,098.2 million, an increase of 70 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $3,803.1 million in 1977, was 74 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 39.0 thousand employees, an increase of 2 percent from 1972. The leading States in employment were North Carolina, Virginia, Kentucky, and Georgia, accounting for 100 percent of the industry's 1977 employment. Data for Virginia and Georgia have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments in this industry with less than 20 employees were excluded from the mail portions of the census. There were no establishments for which administrative records were used.

INDUSTRY 2121, CIGARS

This industry comprises establishments primarily engaged in the manufacture of cigars. (Establishments primarily engaged in the manufacture of cigarettes are classified in industry 2111. For a detailed list of products of industry 2121, refer to table 6a, product codes 21210 13 to 21210 31.

The total value of shipments for establishments classified in the Cigars industry amounted to $242.7 million in 1977, a decrease 29 percent from 1972. The value of shipments of products classified as primary to the industry was $256.2 million; a decrease of 28 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $125.6 million in 1977, was 35 percent below value added in 1972. All dollar figures shown in this report are in current dollars; they are not adjusted for changes in price levels.

In 1977 the industry had 7.7 thousand employees, a decrease of 43 percent from 1972. The leading States in employment were Pennsylvania, Florida, Alabama, and Kentucky, accounting for 87 percent fo the industry's 1977 employment. The data for Alabama and Kentucky have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The establishments in this industry with less than 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 10 percent of total value of shipments.

INDUSTRY 2131, CHEWING AND SMOKING TOBACCO

This industry comprises establishments primarily engaged in the manufacture of tobacco (chewing and smoking) and snuff. For a detailed list of products of industry 2131, refer to table 6a, product codes 21310 13 to 21310 98.

The total value of shipments for establishments classified in the chewing and smoking tobacco industry amounted to $354.3 million in 1977, an increase of 96 percent from 1972. The value of shipments of products classified as primary to the industry was $401.4 million, an increase of 56 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $188.9 million in 1977, was 83 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 3.2 thousand employees, a decrease of 3 percent from 1972. The leading States in employment were Kentucky, Tennessee, Virginia, and Illinois, accounting for 69 percent of the industry's 1977 employment. Data for these States have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The establishments in this industry with less than 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of total value of shipments.

INDUSTRY 2141, TOBACCO STEMMING AND REDRYING

This industry comprises establishments primarily engaged in the stemming and redrying of tobacco. For a detailed list of products of industry 2141, refer to table 6a, product codes 21410 11 to 21412 25.

The total value of shipments for establishments classified in the Tobacco Stemming and Redrying industry amounted to $2,076.2 million in 1977, an increase of 25 percent from 1972. The value of shipments of products classified as primary to the industry was $1,769.1 million, an increase of 32 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $216.5 million in 1977, was 41 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 10.7 thousand employees, a decrease of 6 percent from 1972. The leading States in employment were North Carolina, Virginia, Kentucky, and Pennsylvania, accounting for 90 percent of the industry's 1977 employment. The data for Kentucky and Pennsylvania have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The establishments in this industry with less than 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

(For explanation of terms, see appendix)

Year[1]	Companies[2] (number)	All establishments: Total (number)	All establishments: With 20 employees or more (number)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2111, CIGARETTES																
1977 CENSUS.	5	14	13	39.0	567.7	32.5	58.9	442.0	3 803.1	2 573.5	6 377.4	118.0	(NA)	2 652.2	97	99
1976 ASM....	(NA)	(NA)	(NA)	40.8	521.4	34.5	64.8	412.0	3 591.9	2 436.1	6 029.6	98.3	1 123.6	2 551.3	(NA)	(NA)
1975 ASM....	(NA)	(NA)	(NA)	40.3	477.3	34.1	62.9	379.0	3 203.2	2 196.2	5 398.6	102.3	1 044.1	2 462.3	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	40.9	438.2	35.0	64.4	351.4	2 689.1	1 897.7	4 585.0	147.3	989.9	2 271.8	(NA)	(NA)
1973 ASM....	(NA)	(NA)	(NA)	41.4	400.7	35.8	67.2	324.7	2 453.5	1 731.3	4 181.2	147.6	860.3	1 791.9	(NA)	(NA)
1972 CENSUS.	7	12	11	38.1	344.8	33.4	62.2	286.5	2 187.8	1 554.7	3 744.6	101.5	712.4	1 700.8	96	100
1971 ASM....	(NA)	(NA)	(NA)	35.9	313.3	31.6	59.4	260.3	2 109.7	1 464.3	3 573.3	75.1	599.5	1 490.2	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	37.4	287.0	33.3	63.6	241.5	2 037.8	1 465.6	3 503.4	36.8	575.6	1 470.5	(NA)	(NA)
1969 ASM....	(NA)	(NA)	(NA)	37.0	248.8	33.0	60.4	208.7	1 784.3	1 380.2	3 165.1	36.0	553.1	1 405.4	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	37.2	237.5	33.5	60.7	203.5	1 731.3	1 417.4	3 147.1	29.6	532.4	1 386.9	(NA)	(NA)
1967 CENSUS.	5	16	14	36.6	221.3	32.8	62.7	187.6	1 639.6	1 405.4	3 044.6	33.8	520.1	1 423.6	97	100
1966 ASM....	(NA)	(NA)	(NA)	35.6	209.3	31.9	61.3	178.5	1 483.1	1 380.5	2 860.3	32.0	(NA)	1 359.8	(NA)	(NA)
1965 ASM....	(NA)	(NA)	(NA)	35.9	198.9	32.3	60.5	171.1	1 366.1	1 353.9	2 719.9	33.3	(NA)	1 383.0	(NA)	(NA)
1964 ASM....	(NA)	(NA)	(NA)	34.8	185.8	31.5	62.3	162.4	1 315.5	1 328.0	2 642.8	37.1	430.1	1 246.8	(NA)	(NA)
1963 CENSUS.	7	14	14	35.6	183.0	32.0	63.0	158.8	1 310.3	1 343.4	2 655.3	29.7	421.5	1 226.5	97	100
INDUSTRY 2121, CIGARS																
1977 CENSUS.	94	101	34	7.7	54.9	7.0	12.7	44.0	125.6	117.8	242.7	3.3	(NA)	57.8	(D)	92
1976 ASM....	(NA)	(NA)	(NA)	8.4	55.7	7.6	13.7	44.5	147.5	120.4	267.9	4.7	70.6	61.2	(NA)	(NA)
1975 ASM....	(NA)	(NA)	(NA)	9.8	58.2	8.8	16.0	47.9	166.1	129.4	296.1	2.7	76.0	66.2	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	11.7	62.5	10.8	18.8	52.2	174.3	134.4	309.7	4.5	86.7	59.9	(NA)	(NA)
1973 ASM....	(NA)	(NA)	(NA)	13.0	66.0	11.8	21.9	54.4	187.4	147.7	334.4	3.2	91.8	57.9	(NA)	(NA)
1972 CENSUS.	113	132	51	13.5	68.2	12.1	22.4	54.8	192.6	146.7	339.7	5.4	94.4	62.5	99	91
1971 ASM....	(NA)	(NA)	(NA)	15.0	69.2	13.7	25.6	56.6	218.8	140.5	359.3	8.1	85.7	60.3	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	16.9	73.3	15.3	28.6	61.0	221.5	153.8	375.3	7.2	81.0	56.5	(NA)	(NA)
1969 ASM....	(NA)	(NA)	(NA)	17.4	73.5	15.7	29.3	60.0	203.5	159.5	366.2	3.4	85.1	58.9	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	19.0	76.3	17.2	32.0	62.9	216.4	172.2	388.8	4.8	87.1	61.4	(NA)	(NA)
1967 CENSUS.	126	148	63	19.0	71.2	17.2	31.7	58.8	195.8	168.0	363.7	5.4	84.1	54.5	100	98
1966 ASM....	(NA)	(NA)	(NA)	19.4	71.4	17.9	33.0	61.0	204.1	180.6	378.8	7.0	(NA)	69.4	(NA)	(NA)
1965 ASM....	(NA)	(NA)	(NA)	21.0	76.4	19.3	35.9	63.8	220.8	185.8	405.0	9.6	(NA)	67.3	(NA)	(NA)
1964 ASM....	(NA)	(NA)	(NA)	23.0	80.8	21.4	41.9	69.5	219.9	197.7	416.2	7.6	73.5	68.9	(NA)	(NA)
1963 CENSUS.	164	193	82	20.7	68.1	19.0	35.0	57.8	193.0	166.0	358.5	4.2	65.7	61.8	100	100
INDUSTRY 2131, CHEWING AND SMOKING TOBACCO																
1977 CENSUS.	28	35	19	3.2	32.1	2.5	4.4	22.0	188.9	166.4	354.3	7.3	(NA)	99.8	97	75
1976 ASM....	(NA)	(NA)	(NA)	3.1	29.4	2.4	4.1	20.2	161.0	136.0	297.1	2.9	73.9	87.7	(NA)	(NA)
1975 ASM....	(NA)	(NA)	(NA)	3.1	27.1	2.4	4.3	19.9	142.6	120.4	262.1	2.8	75.9	74.9	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	3.0	23.8	2.4	4.5	17.1	121.3	101.4	185.6	16.2	85.2	63.2	(NA)	(NA)
1973 ASM....	(NA)	(NA)	(NA)	3.0	23.2	2.4	4.5	15.3	111.6	81.9	194.1	19.1	85.4	39.4	(NA)	(NA)
1972 CENSUS.	28	37	22	3.3	23.0	2.6	4.7	15.0	103.2	77.3	180.2	12.1	56.4	40.0	96	94
1971 ASM....	(NA)	(NA)	(NA)	3.7	23.1	2.9	5.3	15.4	105.5	81.5	186.6	1.8	54.1	44.3	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	3.8	23.0	2.9	5.5	15.2	99.8	79.0	178.5	4.2	52.0	46.0	(NA)	(NA)
1969 ASM....	(NA)	(NA)	(NA)	4.2	26.4	3.1	6.1	16.2	99.8	79.7	179.0	3.6	45.8	52.7	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	3.8	20.3	2.9	5.3	13.1	66.7	72.1	138.3	2.3	43.2	52.8	(NA)	(NA)
1967 CENSUS.	41	46	22	3.6	18.1	2.7	4.9	11.5	63.5	58.6	122.2	1.5	41.9	36.8	96	58
1966 ASM....	(NA)	(NA)	(NA)	4.3	21.2	3.3	6.2	13.4	84.3	61.6	146.9	2.4	(NA)	39.7	(NA)	(NA)
1965 ASM....	(NA)	(NA)	(NA)	4.4	21.0	3.5	6.5	13.6	75.8	67.9	144.5	6.4	(NA)	39.9	(NA)	(NA)
1964 ASM....	(NA)	(NA)	(NA)	5.1	24.4	3.8	6.8	14.2	93.7	80.1	174.6	5.6	39.8	44.0	(NA)	(NA)
1963 CENSUS.	45	51	25	4.1	18.2	3.1	5.7	11.6	74.0	65.9	139.5	.9	33.5	41.5	97	61
INDUSTRY 2141, TOBACCO STEMMING AND REDRYING																
1977 CENSUS.	39	78	57	10.7	96.1	8.4	16.6	62.6	216.5	1 872.1	2 076.2	52.8	(NA)	902.2	(D)	94
1976 ASM....	(NA)	(NA)	(NA)	12.5	97.6	10.3	19.9	66.8	227.5	1 966.8	2 191.6	26.9	363.0	927.4	(NA)	(NA)
1975 ASM....	(NA)	(NA)	(NA)	13.0	92.0	10.9	21.1	66.3	209.6	1 896.4	2 103.1	87.1	345.3	887.3	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	12.0	82.6	9.9	19.2	57.8	231.9	1 832.5	2 059.6	17.4	271.9	807.7	(NA)	(NA)
1973 ASM....	(NA)	(NA)	(NA)	11.2	67.5	9.3	16.9	45.8	147.6	1 485.7	1 631.0	10.5	229.5	681.8	(NA)	(NA)
1972 CENSUS.	46	91	70	11.4	66.0	9.3	17.4	44.5	153.6	1 502.4	1 656.8	14.1	225.1	690.1	100	97
1971 ASM....	(NA)	(NA)	(NA)	12.5	64.9	10.3	18.9	44.0	125.9	1 286.7	1 408.7	9.4	228.4	676.0	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	13.3	64.4	11.2	20.8	43.8	130.3	1 160.8	1 292.5	7.8	214.6	627.5	(NA)	(NA)
1969 ASM....	(NA)	(NA)	(NA)	13.6	62.6	11.4	21.5	43.6	133.4	1 147.0	1 281.9	17.6	211.9	781.6	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	13.9	62.0	11.7	22.6	43.5	126.3	1 138.3	1 263.0	13.7	204.4	822.7	(NA)	(NA)
1967 CENSUS.	54	119	96	15.9	66.2	13.5	26.2	45.7	133.1	1 239.7	1 373.1	12.2	198.0	863.0	100	99
1966 ASM....	(NA)	(NA)	(NA)	13.1	54.3	11.0	21.7	36.5	100.5	1 286.1	1 386.8	16.8	(NA)	835.6	(NA)	(NA)
1965 ASM....	(NA)	(NA)	(NA)	13.2	53.1	11.0	22.0	36.5	103.0	1 275.9	1 378.9	9.9	(NA)	886.9	(NA)	(NA)
1964 ASM....	(NA)	(NA)	(NA)	16.0	61.8	13.5	27.3	44.6	143.1	1 277.2	1 418.2	8.5	169.8	1 042.1	(NA)	(NA)
1963 CENSUS.	59	136	110	17.0	61.1	14.5	28.3	43.3	103.3	1 261.1	1 366.6	19.0	163.0	1 076.7	100	100

[D] Withheld to avoid disclosing operations of individual companies. (NA) Not available.

[1] In Annual Survey of Manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2] For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3] Industry was defined after 1963 Census of Manufactures, so data are available only for years shown.

[4] Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5] Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6] Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7] Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8] Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

(For explanation of terms, see appendix)

Year	Payroll per employee (dol.)	Assets per employee (dol.)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2111, CIGARETTES											
1977 CENSUS.	14 556	(NA)	83	1 812	7.50	40	49	(NA)	97 515	15	64.57
1976 ASM . .	12 779	27 539	85	1 878	6.36	40	49	19	88 037	15	55.43
1975 ASM . .	11 844	25 908	85	1 845	6.03	41	50	19	79 484	15	50.93
1974 ASM . .	10 714	24 203	86	1 840	5.46	41	51	22	65 748	16	41.76
1973 ASM . .	9 679	20 780	86	1 877	4.83	41	51	21	59 263	16	36.51
1972 CENSUS.	9 050	18 698	88	1 862	4.61	42	51	19	57 438	16	35.18
1971 ASM . .	8 727	16 699	88	1 880	4.38	41	50	17	58 766	15	35.52
1970 ASM . .	7 674	15 390	89	1 910	3.80	42	50	16	54 487	14	32.04
1969 ASM . .	6 724	14 950	89	1 830	3.46	44	51	17	48 224	14	29.54
1968 ASM . .	6 384	14 310	90	1 817	3.35	45	53	17	46 540	14	28.52
1967 CENSUS.	6 046	14 210	90	1 912	2.99	46	53	17	44 798	13	26.15
1966 ASM . .	5 879	(NA)	90	1 922	2.91	48	56	(NA)	41 660	14	24.19
1965 ASM . .	5 540	(NA)	90	1 873	2.83	50	57	(NA)	38 053	15	22.58
1964 ASM . .	5 339	12 360	91	1 978	2.61	50	57	16	37 802	14	21.12
1963 CENSUS.	5 140	11 590	90	1 969	2.52	51	57	16	36 806	14	20.80
INDUSTRY 2121, CIGARS											
1977 CENSUS.	7 130	(NA)	91	1 814	3.46	49	71	(NA)	16 312	48	9.89
1976 ASM . .	6 631	8 405	90	1 803	3.25	45	66	26	17 560	38	10.77
1975 ASM . .	5 939	7 755	90	1 818	2.99	44	63	26	16 949	35	10.38
1974 ASM . .	5 342	7 410	92	1 741	2.78	43	64	28	14 897	36	9.27
1973 ASM . .	5 077	7 062	91	1 856	2.48	44	64	27	14 415	35	8.56
1972 CENSUS.	5 052	6 993	90	1 851	2.45	43	63	28	14 215	36	8.57
1971 ASM . .	4 613	5 710	91	1 869	2.21	39	58	24	14 587	32	8.55
1970 ASM . .	4 337	4 790	91	1 869	2.13	41	61	22	13 107	33	7.74
1969 ASM . .	4 224	4 890	90	1 866	2.05	44	64	23	11 695	36	6.95
1968 ASM . .	4 016	4 580	91	1 860	1.97	44	64	22	11 389	35	6.76
1967 CENSUS.	3 747	4 430	91	1 843	1.85	46	66	23	10 305	36	6.18
1966 ASM . .	3 680	(NA)	92	1 844	1.85	48	67	(NA)	10 521	35	6.18
1965 ASM . .	3 638	(NA)	92	1 860	1.78	46	65	(NA)	10 514	35	6.15
1964 ASM . .	3 513	3 200	93	1 958	1.66	48	67	18	9 561	37	5.25
1963 CENSUS.	3 290	3 170	92	1 842	1.65	46	65	18	9 324	35	5.51
INDUSTRY 2131, CHEWING AND SMOKING TOBACCO											
1977 CENSUS.	10 031	(NA)	78	1 760	5.00	47	56	(NA)	59 031	17	42.93
1976 ASM . .	9 484	23 839	77	1 708	4.93	46	56	25	51 935	18	39.27
1975 ASM . .	8 742	24 484	77	1 792	4.63	46	56	29	46 000	19	33.16
1974 ASM . .	7 933	28 400	80	1 875	3.80	55	67	46	40 433	20	26.96
1973 ASM . .	7 733	28 467	80	1 875	3.40	42	54	44	37 200	21	24.80
1972 CENSUS.	6 970	17 091	79	1 808	3.19	43	56	31	31 273	22	21.96
1971 ASM . .	6 243	14 620	78	1 828	2.91	44	56	29	28 514	22	19.91
1970 ASM . .	6 053	13 680	76	1 897	2.76	44	57	29	26 263	23	18.15
1969 ASM . .	6 286	10 900	74	1 968	2.66	45	59	26	23 762	26	16.36
1968 ASM . .	5 342	11 370	76	1 828	2.47	52	67	31	17 553	30	12.58
1967 CENSUS.	5 028	11 640	75	1 815	2.35	48	63	34	17 639	29	12.96
1966 ASM . .	4 930	(NA)	77	1 879	2.16	42	56	(NA)	19 605	25	13.60
1965 ASM . .	4 773	(NA)	80	1 857	2.09	47	62	(NA)	17 227	28	11.66
1964 ASM . .	4 784	7 800	75	1 789	2.09	46	60	23	18 373	26	13.78
1963 CENSUS.	4 439	8 170	76	1 839	2.04	47	60	24	18 049	25	12.98
INDUSTRY 2141, TOBACCO STEMMING AND REDRYING											
1977 CENSUS.	8 981	(NA)	79	1 976	3.77	90	95	(NA)	20 234	44	13.04
1976 ASM . .	7 808	29 040	82	1 932	3.36	90	94	17	18 200	43	11.43
1975 ASM . .	7 077	26 562	84	1 936	3.14	90	95	16	16 123	44	9.93
1974 ASM . .	6 883	22 658	83	1 939	3.01	89	93	13	19 325	36	12.08
1973 ASM . .	6 027	20 491	83	1 817	2.71	91	95	14	13 179	46	8.73
1972 CENSUS.	5 789	19 746	82	1 871	2.56	91	95	14	13 474	43	8.83
1971 ASM . .	5 192	18 280	82	1 835	2.33	91	96	16	10 072	52	6.66
1970 ASM . .	4 842	16 140	84	1 857	2.11	90	95	17	9 797	49	6.26
1969 ASM . .	4 603	15 580	84	1 886	2.03	89	94	17	9 809	47	6.20
1968 ASM . .	4 460	14 710	84	1 932	1.92	90	95	16	9 086	49	5.59
1967 CENSUS.	4 164	12 540	85	1 941	1.74	90	95	14	8 371	50	5.08
1966 ASM . .	4 145	(NA)	84	1 973	1.68	93	97	(NA)	7 672	54	4.63
1965 ASM . .	4 023	(NA)	83	2 000	1.66	93	96	(NA)	7 803	52	4.68
1964 ASM . .	3 863	10 610	84	2 022	1.63	90	94	12	8 944	43	5.24
1963 CENSUS.	3 594	11 640	85	1 952	1.53	92	97	12	6 076	59	3.65

Note: For qualifications to data, see footnotes on table 1a.

(NA) Not available.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

(For explanation of terms, see appendix)

Industry and geographic area	1977											1972	
		All establishments		All employees		Production workers			Value added by manufacture (mil. dol.)	Cost of materials (mil. dol.)	Value of shipments (mil. dol.)	New capital expenditures (mil. dol.)	All employees[2] (1,000)	Value added by manufacture (mil. dol.)
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (mil. dol.)	Number (1,000)	Hours (millions)	Wages (mil. dol.)						
INDUSTRY 2111, CIGARETTES														
United States		14	13	39.0	567.7	32.5	58.9	442.0	3,803.1	2,573.5	6,377.4	118.0	38.1	2,187.8
South Atlantic Division:														
Virginia		3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
North Carolina		6	5	17.9	262.3	15.6	30.1	213.5	2,002.7	1,250.3	3,253.8	(D)	17.6	1,098.5
Georgia		1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Division:														
Kentucky		3	3	8.3	118.3	7.1	12.2	97.2	728.1	451.5	1,179.3	(D)	9.5	464.4
INDUSTRY 2121, CIGARS														
United States		101	34	7.7	54.9	7.0	12.7	44.0	125.6	117.8	242.7	3.3	13.5	192.6
Middle Atlantic Division:														
Pennsylvania	E1	18	12	2.7	20.4	2.5	4.8	17.2	63.7	41.9	104.9	.8	6.0	104.7
East North Central Division:														
Ohio	E2	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
Georgia	E2	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Florida	E1	43	10	2.6	18.9	2.3	4.0	14.4	31.2	41.7	72.7	.7	4.1	49.6
East South Central Division:														
Kentucky	E1	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Alabama	E1	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
INDUSTRY 2131, CHEWING AND SMOKING TOBACCO														
United States		35	19	3.2	32.1	2.5	4.4	22.0	188.9	166.4	354.3	7.3	3.3	103.2
Middle Atlantic Division:														
New York		3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East North Central Division:														
Illinois		1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
Virginia		4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West Virginia		1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
North Carolina		2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
East South Central Division:														
Kentucky	E1	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Tennessee		5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
INDUSTRY 2141, TOBACCO STEMMING AND REDRYING														
United States		78	57	10.7	96.1	8.4	16.6	62.6	216.5	1,872.1	2,076.2	52.8	11.4	153.6
Middle Atlantic Division:														
Pennsylvania		9	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Atlantic Division:														
Virginia		11	10	2.1	21.7	1.7	3.1	14.9	37.6	437.0	474.2	(D)	2.5	36.0
North Carolina		28	23	5.3	43.8	4.1	8.0	27.1	97.1	953.0	1,046.7	(D)	FF	(D)
South Carolina	E1	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
East South Central Division:														
Kentucky		15	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Tennessee		3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1--10 to 19 percent; E2--20 to 29 percent; E3--30 to 39 percent; E4--40 to 49 percent; E5--50 to 59 percent; E6--60 to 69 percent; E7--70 to 79 percent; E8--80 to 89 percent; E9--90 to 99 percent; E0--100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA--150 to 249 employees; BB--250 to 499 employees; CC--500 to 999 employees; EE--1,000 to 2,499 employees; FF--2,500 employees or more.

Table 3a. Summary Statistics for the Industry: 1977

(For explanation of terms, see appendix)

Item	Cigarettes (SIC 2111)	Cigars (SIC 2121)	Chewing and smoking tobacco (SIC 2131)	Tobacco stemming and redrying (SIC 2141)
PRIMARY PRODUCT SPECIALIZATION RATIO[1] . . . . PERCENT	.97	(D)	.97	(D)
COVERAGE RATIO[2] . . . . . DO. .	.99	.92	.75	.94
ALL ESTABLISHMENTS . . . . . NUMBER.	14	101	35	78
WITH 1 TO 19 EMPLOYEES . . . . . DO. .	1	67	16	21
WITH 20 TO 99 EMPLOYEES. . . . . DO. .	1	15	7	15
WITH 100 OR MORE EMPLOYEES . . . . . DO. .	12	19	12	42
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . . 1,000 .	39.0	7.7	3.2	10.7
PAYROLL FOR YEAR, ALL EMPLOYEES . . . . . MIL. DOL.	567.7	54.9	32.1	96.1
PRODUCTION WORKERS:				
AVERAGE FOR YEAR. 1,000	32.5	7.0	2.5	8.4
MARCH . . . . . DO. .	33.6	7.0	2.4	7.4
MAY . . . . . DO. .	31.2	6.8	2.4	4.5
AUGUST. . . . . DO. .	32.7	7.0	2.5	10.3
NOVEMBER. . . . . DO. .	32.7	7.2	2.5	11.5
HOURS . . . . . .MILLIONS	58.9	12.7	4.4	16.6
JANUARY TO MARCH. . . . . DO. .	14.7	3.2	1.1	3.8
APRIL TO JUNE . . . . . DO. .	14.3	3.2	1.1	2.1
JULY TO SEPTEMBER . . . . . DO. .	14.9	2.9	1.1	4.8
OCTOBER TO DECEMBER . . . . . DO. .	14.9	3.3	1.1	5.9
WAGES . . . . . MIL. DOL.	442.0	44.0	22.0	62.6
COST OF MATERIALS, ETC. . . . . DO. .	2 573.5	117.8	166.4	1 872.1
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMED. DO. .	2 483.7	109.5	128.9	1 567.4
RESALES . . . . . DO. .	(D)	(D)	32.7	278.1
FUELS CONSUMED. . . . . DO. .	17.9	.9	1.7	10.6
PURCHASED ELECTRIC ENERGY . . . . . DO. .	20.0	2.1	1.4	9.4
CONTRACT WORK . . . . . DO. .	(D)	(D)	1.8	6.5
VALUE OF SHIPMENTS, INCLUDING RESALES . . . . . DO. .	6 377.4	242.7	354.3	2 076.2
VALUE OF RESALES. . . . . DO. .	(D)	(D)	37.6	260.2
VALUE ADDED BY MANUFACTURE. . . . . DO. .	3 803.1	125.6	188.9	216.5
MANUFACTURERS' INVENTORIES:				
BEGINNING OF YEAR . . . . . DO. .	2 564.7	54.9	94.7	900.9
FINISHED PRODUCTS . . . . . DO. .	60.2	14.3	28.0	112.5
WORK IN PROCESS . . . . . DO. .	23.0	3.3	9.2	11.8
MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO. .	2 481.5	37.3	57.5	776.5
END OF YEAR . . . . . DO. .	2 652.2	57.8	99.8	902.2
FINISHED PRODUCTS . . . . . DO. .	50.1	16.3	28.7	113.1
WORK IN PROCESS . . . . . DO. .	22.2	4.0	10.3	24.1
MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO. .	2 579.9	37.4	60.8	764.9
CAPITAL EXPENDITURES FOR PLANT AND EQUIPMENT . DO. .	128.6	4.1	7.3	57.8
NEW CAPITAL EXPENDITURES. . . . . DO. .	118.0	3.3	7.3	52.8
NEW BUILDINGS AND STRUCTURES. . . . . DO. .	41.2	.3	1.9	13.3
NEW MACHINERY AND EQUIPMENT . . . . . DO. .	76.8	2.9	5.4	39.6
USED CAPITAL EXPENDITURES . . . . . DO. .	2.6	.8	(Z)	4.9

- Represents zero. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Cigarettes (SIC 2111)		Cigars (SIC 2121)		Chewing and smoking tobacco (SIC 2131)		Tobacco stemming and redrying (SIC 2141)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	11.5	1	0.2	1	0.2	1	(1.6)	22
Response coverage ratio[2] (percent)	92.2	(X)	62.9	(X)	71.6	(X)	61.2	(X)
Machinery	1.8	1	0.7	1	(0.4)	25	(3.8)	26
Response coverage ratio[2] (percent)	96.1	(X)	64.7	(X)	75.3	(X)	71.9	(X)
Cost of purchased communication services	3.0	1	(0.2)	24	0.2	10	0.8	14
Response coverage ratio[2] (percent)	82.7	(X)	64.8	(X)	81.6	(X)	65.4	(X)
Rental payments	10.3	(1)	1.0	7	0.6	5	2.5	9
Buildings and other structures	7.0	(1)	0.3	9	0.3	5	1.3	11
Machinery and equipment	3.3	(1)	0.7	8	0.2	6	1.2	7
Supplemental labor costs	167.3	1	11.8	1	7.6	2	19.4	1
Legal costs	40.1	1	4.7	1	2.3	5	8.3	1
Voluntary costs	127.2	1	7.0	1	5.3	1	11.1	3
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	384.6	1	24.4	5	29.4	2	121.3	3
New capital expenditures	41.2	1	(0.4)	24	1.8	2	13.5	3
Used capital expenditures	-	(X)	-	(X)	-	(X)	1.6	(X)
Retirements	0.6	1	1.2	4	(0.1)	75	2.1	(X)
End of year	425.2	1	23.6	5	31.2	2	134.3	2
Machinery and equipment:								
Beginning of year	827.2	1	45.5	5	48.9	3	182.6	3
New capital expenditures[3]	76.8	1	2.9	8	5.4	3	39.5	1
Automobiles, trucks, etc., for highway use[3]	15.0	(A)	(0.1)	(A)	(0.3)	(A)	(0.7)	(A)
Computers and peripheral data processing equipment[3]	(0.3)	(A)	(Z)	(A)	(0.1)	(A)	(0.1)	(A)
All other[3]	(71.3)	(A)	(2.6)	(A)	(3.4)	(A)	(34.3)	(A)
New machinery and equipment, n.s.k[4]	(Z)	(A)	(0.2)	(A)	(1.5)	(A)	(4.4)	(A)
Used capital expenditures	2.6	1	0.8	1	-	(X)	3.4	(X)
Retirements	50.0	1	2.2	4	0.6	14	7.3	(X)
End of year	856.5	1	47.0	5	53.7	3	218.2	3
Total gross value of depreciable assets:								
Beginning of year	1,211.8	1	69.8	5	78.3	2	303.9	3
New capital expenditures	118.0	1	3.3	9	7.2	2	53.0	1
Used capital expenditures	2.6	1	0.8	1	-	(X)	5.1	6
Retirements	50.7	1	3.4	4	(0.6)	19	9.4	1
End of year	1,281.7	1	70.6	5	84.9	2	352.5	3
Depreciation charges during 1977	80.4	1	2.9	5	3.2	3	24.5	3
Buildings and other structures	19.8	1	0.8	5	0.7	2	8.3	3
Machinery and equipment	60.6	1	2.2	5	2.5	3	16.2	3

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

(For explanation of terms, see appendix)

Industry and employment size class[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2111, CIGARETTES											
Total	14	39.0	567.7	32.5	58.9	442.0	3,803.1	2,573.5	6,377.4	118.0	2,652.2
Establishments with an average of--											
1 to 4 employees	0	(1.2)	(17.9)	(1.0)	(1.7)	(12.9)	(291.6)	(110.8)	(402.3)	(D)	(66.5)
5 to 9 employees	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	4	5.9	83.1	5.1	9.6	71.4	416.4	388.8	804.6	(D)	206.0
2,500 employees or more	6	31.9	466.7	26.4	47.6	357.7	3,095.1	2,073.9	5,170.5	(D)	2,379.7
INDUSTRY 2121, CIGARS											
Total	101	7.7	54.9	7.0	12.7	44.0	125.6	117.8	242.7	3.3	57.8
Establishments with an average of--											
1 to 4 employees....E9	51	.1	.5	.1	.1	.4	.8	1.1	2.3	(Z)	.5
5 to 9 employees....E9	9	.1	.4	.1	.1	.3	.9	.8	1.7	(Z)	.3
10 to 19 employees....E8	7	.1	.6	.1	.2	.5	1.5	1.3	2.8	(D)	.5
20 to 49 employees....E1	10	.3	2.2	.2	.5	1.6	3.3	3.4	7.0	.1	2.0
50 to 99 employees	5	.3	2.3	.3	.7	1.9	5.1	3.0	8.1	.1	2.7
100 to 249 employees	4	.7	4.7	.6	1.0	3.5	10.5	11.6	22.1	(D)	6.6
250 to 499 employees	12	3.9	25.9	3.6	6.4	21.6	65.1	65.8	129.5	1.9	29.1
500 to 999 employees	3	2.2	18.3	2.0	3.7	14.4	38.4	30.8	69.2	.9	16.1
Covered by administrative records[2]....E0	60	.2	1.3	.2	.3	1.0	3.3	2.9	6.2	.1	1.2
INDUSTRY 2131, CHEWING AND SMOKING TOBACCO											
Total	35	3.2	32.1	2.5	4.4	22.0	188.9	166.4	354.3	7.3	99.8
Establishments with an average of--											
1 to 4 employees....E8	11	(Z)	.2	(Z)	(Z)	.1	.9	.8	1.7	(Z)	.5
5 to 9 employees....E2	5	(.1)	(.8)	(.1)	(.2)	(.6)	(1.8)	(4.8)	(6.6)	(D)	(2.8)
20 to 49 employees	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	5	.4	4.3	.3	.5	2.5	17.8	24.6	42.6	.4	26.6
100 to 249 employees	10	(2.7)	(26.8)	(2.1)	(3.7)	(18.8)	(168.4)	(136.2)	(303.4)	(D)	(69.9)
250 to 499 employees	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]....E0	15	(Z)	.4	(Z)	.1	.3	1.7	1.5	3.1	(Z)	.9
INDUSTRY 2141, TOBACCO STEMMING AND REDRYING											
Total	78	10.7	96.1	8.4	16.6	62.6	216.5	1,872.1	2,076.2	52.8	902.2
Establishments with an average of--											
1 to 4 employees....E0	9	(Z)	.1	(Z)	(Z)	.1	.3	4.2	4.4	(D)	1.9
5 to 9 employees....E5	5	(Z)	.2	(Z)	(Z)	.2	.5	4.8	5.3	.1	2.0
10 to 19 employees....E2	7	.1	.7	.1	.1	.6	.3	8.8	10.6	(D)	6.4
20 to 40 employees	9	.3	2.3	.3	.5	1.5	4.7	7.7	12.4	.2	3.8
50 to 99 employees	6	.4	4.4	.3	.6	2.9	13.3	52.7	66.7	.8	12.6
100 to 249 employees	27	4.3	41.7	3.3	7.0	26.2	104.8	881.7	973.7	41.4	572.3
250 to 499 employees	13	5.6	(46.7)	(4.4)	(8.4)	(31.1)	(92.6)	(912.2)	(1,003.1)	(9.9)	(303.2)
500 to 999 employees	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]....E0	7	(Z)	.3	(Z)	.1	.2	.7	6.2	6.9	.1	2.5

(D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available.
(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown were estimated data based on administrative records data account for 10 percent or more of figures shown: E1--10 to 19 percent; E2--20 to 29 percent; E3--30 to 39 percent; E4--40 to 49 percent; E5--50 to 59 percent; E6--60 to 69 percent; E7--70 to 79 percent; E8--80 to 89 percent; E9--90 to 99 percent; E0--100 percent.

[2]Report forms were not mailed to single-establishment companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied to other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

(Table is not applicable to this report)

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2111	Cigarettes....1977..	6,377.4	(D)	(D)	(D)	97	6,098.2	(D)	(D)	99
	1972..	3,743.6	(D)	(D)	(D)	96	3,589.4	(D)	(D)	100
	1967..	3,044.6	(D)	(D)	(D)	97	2,942.1	(D)	(D)	100
2121	Cigars....1977..	242.7	234.8	(D)	(D)	(D)	256.2	234.8	21.4	92
	1972..	339.7	324.2	(D)	(D)	100	357.5	324.2	33.3	91
	1967..	363.7	(D)	(D)	(D)	100	362.1	(D)	(D)	98
2131	Chewing and smoking tobacco....1977..	354.3	302.9	8.9	42.5	97	401.4	302.9	98.5	75
	1972..	180.2	164.9	7.3	8.0	96	257.5	164.9	92.6	64
	1967..	122.2	112.7	4.1	5.4	96	193.8	112.7	81.1	58
2141	Tobacco stemming and redrying....1977..	2,076.2	1,660.9	(D)	(D)	(D)	1,769.1	1,661.0	108.1	94
	1972..	1,656.8	1,293.6	4.8	358.4	100	1,335.8	1,293.6	42.2	97
	1967..	1,373.1	(D)	(D)	275.3	100	1,111.9	(D)	(D)	99

(D) Withheld to avoid disclosing operations of individual companies.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of the industries included in this chapter are shown. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are made in industries not included in this chapter, the value of such shipments is shown in the "All other industries" column. The specified "All other industries" are listed at the end of the table if they account for more than $5 million of the products primary to this chapter. For explanation of terms, see appendix)

1977 product code	Industry, product class, and miscellaneous receipts	All industries	Cigarettes (SIC 2111)	Cigars (SIC 2121)	Chewing and smoking tobacco (SIC 2131)	Tobacco stemming and redrying (SIC 2141)	All other industries
	Total	(X)	6,377.4	242.7	354.3	2,076.2	(X)
	Primary products	(X)	(D)	234.8	302.9	1,595.2	(X)
	Secondary products	(X)	(D)	(D)	8.9	(D)	(X)
	Miscellaneous receipts	(X)	(D)	(D)	42.5	(D)	(X)
2111-	Cigarettes	6,098.2	(D)	-	(D)	-	(D)
2121-	Cigars	256.2	(D)	234.8	(D)	-	-
2131-	Chewing and smoking tobacco	401.4	98.5	(Z)	302.9	-	-
2141-	Tobacco stemming and redrying	1,769.1	(D)	-	(D)	1,660.9	(D)
21411	Tobacco redried	170.7	-	-	(D)	(D)	-
21412	Tobacco stemmed	1,531.7	(D)	-	(D)	1,434.7	-
21410	Reconstituted tobacco and stemmed and redried tobacco, n.s.k.	66.7	(D)	-	(D)	(D)	(D)
	Other product shipments by 4-digit product group:						
2621-	Paper, except building paper	(X)	-	-	-	(D)	(X)
2649-	Converted paper products	(X)	-	-	(D)	-	(X)
	Other secondary products	(X)	(D)	-	1.6	-	(X)
	Miscellaneous receipts:						
93000	Commission stemming, redrying, etc	96.1	-	(D)	(D)	95.1	(X)
95120	Packaged tobacco	51.8	(D)	-	(D)	28.8	(X)
99989	Resales	347.2	(D)	(D)	37.6	260.2	(X)
99980	Sale of scrap and refuse and other miscellaneous receipts	27.2	.5	(D)	(D)	26.1	(X)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (X) Not collected. n.s.k. Not specified by kind.

Table 6a. Products and Product Classes — Quantity and Value of Production by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation see Appendix B, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Total production[1]		Total production	
				Quantity	Value (million dollars)[2]	Quantity	Value (million dollars)[2]
	CIGARETTES						
2111- --	Total	Million	15	679,022	6,098.2	598,801	3,589.4
	Filter tips:						
21110 13	80 millimeters long or less		5	70,693	593.2	(D)	(D)
21110 16	85-99 millimeters long		8	359,294	3,149.7	320,952	1,884.4
21110 18	100 millimeters long or more		7	182,164	1,730.3	125,954	796.4
	Nonfilter tips:						
21110 53	Less than 80 millimeters long		7	(D)	(D)	44,407	259.6
21110 57	80 millimeters long or more	Million	6	(D)	(D)	(D)	(D)
	CIGARS						
2121- --	Total	Million	(NA)	5,842	256.2	10,507	357.5
21210 --	Cigars:						
21210 13	Little cigars, cigarette-size, weighing less than 3 pounds per 1,000 cigars		4	1,599	20.1	3,975	30.6
21210 21	Cigarillos, weighing 3 to 10 pounds per 1,000 cigars		9	1,439	51.8	1,405	44.1
21210 31	Cigars, weighing more than 10 pounds per 1,000 cigars		22	2,103	149.4	4,594	264.7
21210 00	Cigars, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	[4]578	28.8	[3]430	14.6
21210 02	Cigars, n.s.k., typically for establishments with less than 5 employees (see note)	Million	(NA)	[4]123	6.1	[3]103	3.5
	CHEWING AND SMOKING TOBACCO						
2131- --	Total	Million lb	(NA)	177.8	401.4	180.8	257.5
21310 --	Chewing and smoking tobacco and snuff:						
21310 13	Loose leaf chewing tobacco		7	64.4	85.8	49.2	55.3
21310 08	Smoking tobacco		9	45.3	130.2	126.2	198.8
21310 98	All other chewing tobacco and snuff, including fine cut chewing, twist chewing, plug chewing, snuff flour, etc		7	66.4	181.9		
21310 00	Chewing and smoking tobacco, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	[4].2	.4	3.8	2.4
21310 02	Chewing and smoking tobacco, n.s.k., typically for establishments with less than 5 employees (see note)	Million lb	(NA)	[4]1.5	3.1	1.6	1.0
	STEMMED AND REDRIED TOBACCO						
2141- --	Total	Million lb	(NA)	1,205.8	1,769.1	1,391.7	1,335.8
21410 --	Reconstituted tobacco (processed sheet and homogenized):						
21410 11	Reconstituted tobacco (processed sheet and homogenized)		8	136.4	50.8	(X)	(X)
21411 --	Unstemmed leaf tobacco redried before packing		(NA)	117.8	170.7	162.6	122.2
21411 11	Packed for sale as such		(NA)	(D)	(D)	123.9	77.7
21411 51	Packed for use in own manufacturing (interplant transfers)		(NA)	(D)	(D)	38.7	44.5
21411 00	Unstemmed leaf tobacco redried before packing, n.s.k		(NA)	(NA)	8.0		
21412 --	Stemmed tobacco		(NA)	935.5	1,531.7	1,209.5	1,194.3
	Packed for sale as such		(NA)	232.1	360.9	282.5	276.6
21412 11	Leaf, aged		8	96.0	153.2	(D)	(D)
21412 15	Leaf, not aged		12	136.1	207.7	(D)	(D)
	Packed for use in own manufacturing (interplant transfers)		(NA)	692.6	1,147.8	925.2	915.3
21412 21	Leaf, aged		(NA)	(D)	(D)	353.3	367.5
21412 25	Leaf, not aged		(NA)	(D)	(D)	571.9	547.8
21412 00	Stemmed tobacco, n.s.k		3	[4]10.8	23.1	[3]1.8	2.4
21410 00	Stemmed and redried tobacco, n.s.k., typically for companies with 5 employees or more (see note)		(NA)	[4]10.4	9.0	[3]15.6	15.3
21410 02	Stemmed and redried tobacco, n.s.k., typically for companies with less than 5 employees (see note)	Million lb	(NA)	[4]5.7	6.9	[3]4.1	4.0
	Contract work done on tobacco owned by others[3]		(NA)	(X)	95.1	(X)	49.9
93000 02	Packing leaf, not redried		5	(X)	2.0	(X)	15.5
93000 11	Redrying and packing leaf, (packed weight)		7	(X)	35.0	(X)	6.5
	Stemming leaf (stemmed packed weight):						
93000 12	Leaf, aged		(NA)	-	-	(X)	0.9
93000 13	Leaf, not aged		8	(X)	31.9	(X)	22.3
93000 14	Other contract work done on tobacco owned by others		1	(X)	.2	(X)	2.9
93000 00	Contract work done on tobacco owned by others, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	26.0	(X)	1.8

Footnotes are on next page.

Table 6a. Products and Product Classes — Quantity and Value of Production by All Producers: 1977 and 1972 – Con.

Note: In the 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative record data rather than data actually collected from respondents. The employment cutoff used for administrative records for each industry and the shipments figures are included in the code ending with "002." In both the 1977 and 1972 Censuses of Manufactures, products not completely identified on the standard forms were coded in the appropriate product class (5 digits) followed by "00" or, in some cases, to the appropriate product group code (4 digits) followed by "000."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (X) Not collected. (NA) Not available. n.s.k. Not specified by kind.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]For contract work products (93000 codes), contract receipts are reported instead of value of packed tobacco. Contract receipts are not included in figures for industry 2141.

[4]Quantity was estimated based on quantity-value relationship of all other products in this industry.

Table 6b. Product Classes — Value Shipped by All Manufacturing Establishments, by Geographic Area: 1977 and 1972

(Table is not applicable to this report)

Table 6c. Product Classes — Value Shipped by All Manufacturing Establishments: 1963, 1967, 1972 to 1977

(In millions of dollars)

1977 code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
21110	CIGARETTES	6,098.2	5,830.3	5,208.9	4,380.3	4,004.1	3,589.4	2,942.1	2,568.2
21210	CIGARS	256.2	285.2	316.6	333.8	350.3	357.5	362.1	353.2
21310	CHEWING AND SMOKING TOBACCO AND SNUFF	401.4	345.8	328.1	282.0	269.8	257.5	193.8	217.9
2141-	TOBACCO STEMMING AND REDRYING	1,769.1	1,842.7	1,691.7	1,713.1	1,416.4	1,335.8	1,111.9	1,129.8
21411	UNSTEMMED LEAF TOBACCO REDRIED BEFORE PACKING	170.7	202.6	176.3	145.7	129.1	122.2	115.9	165.4
21412	TOBACCO STEMMED	1,531.7	1,631.4	1,507.0	1,561.0	1,276.0	1,194.3	974.2	964.3
21410	STEMMED AND REDRIED TOBACCO, N.S.K.	66.7	8.8	8.4	6.4	11.3	19.3	21.8	(X)

[1]Figures are estimates derived from representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would have been obtained from complete canvass of all establishments. Standard errors associated with these estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation see Appendix B, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2111, CIGARETTES					
	Materials, containers, and supplies	.....	(X)	2,483.7	(NA)	1,529.6
013211	Unstemmed leaf tobacco, including green tobacco not packed	Million lb.	-	-	62.5	49.3
214111	Unstemmed leaf tobacco, redried and packed		89.7	128.7		
214123	Stemmed leaf tobacco, excluding processed sheet and homogenized tobacco		1,057.9	1,516.7	891.4	1,059.3
214124	Reconstituted tobacco (processed sheet and homogenized)		149.5	55.6	127.2	31.6
214129	Other tobacco materials	Million lb.	(D)	(D)	(X)	4.6
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes, including cellophane[1]	.....	(X)	(D)	(X)	(X)
260012	Paper and paperboard products, including shipping containers, setup and folding cartons, excluding paperback foil and cigarette paper	Million lb.	(S)	199.7	(X)	102.4
970099	All other materials and components, parts, containers, and supplies consumed	.....	(X)	483.9	(X)	262.2
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	-	-	20.2
	INDUSTRY 2121, CIGARS					
	Materials, containers, and supplies	.....	(NA)	109.5	(NA)	133.7
013211	Unstemmed leaf tobacco, including green tobacco not packed	Million lb.	2.6	3.9	8.8	7.0
214111	Unstemmed leaf tobacco, redried and packed		11.8	16.5	20.1	24.2
214123	Stemmed leaf tobacco, excluding processed sheet and homogenized tobacco		36.1	29.7	32.3	37.7
214124	Reconstituted tobacco (processed sheet and homogenized)		6.6	10.0	10.4	8.4
214129	Other tobacco materials	Million lb.	3.5	4.4	25.5	18.2
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes, including cellophane	.....	(X)	8.1	(X)	(2)
260012	Paper and paperboard products, including shipping containers, setup and folding cartons, but excluding paperback foil and cigarette paper	Million lb.	(S)	11.5	(X)	14.2
970099	All other materials and components, parts, containers, and supplies	.....	(X)	7.1	(X)	215.4
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	18.2	(X)	8.6
	INDUSTRY 2131, CHEWING AND SMOKING TOBACCO					
	Materials, containers, and supplies	.....	(X)	128.9	(X)	70.9
013211	Unstemmed leaf tobacco, including green tobacco not packed	Million lb.			37.4	21.2
214111	Unstemmed leaf tobacco, redried and packed		95.2	90.3		
214123	Stemmed leaf tobacco				28.5	24.2
214124	Reconstituted tobacco (processed sheet and homogenized)				1.1	.7
214129	Other tobacco materials	Million lb.	4.9	1.4	(X)	4.2
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes, including cellophane	.....	(X)	1.2	(2)	(2)
260012	Paper and paperboard products, including shipping containers, setup and folding cartons, but excluding paperback foil and cigarette paper	Million lb.	(S)	14.2	(X)	6.9
970099	All other materials and components, parts, containers, and supplies	.....	(X)	20.6	(X)	213.7
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	1.2	-	-
	INDUSTRY 2141, TOBACCO STEMMING AND REDRYING					
	Materials, containers, and supplies	.....	(NA)	1,567.4	(NA)	1,213.9
013211	Unstemmed leaf tobacco, including green tobacco not packed	Million lb.	697.3	859.4	611.8	510.9
214111	Unstemmed leaf tobacco, redried and packed		(D)	(D)	(D)	(D)
214123	Stemmed leaf tobacco, excluding processed sheet and homogenized tobacco		329.7	468.1	583.4	504.8
214124	Reconstituted tobacco (processed sheet and homogenized)		(D)	(D)	(D)	(D)
214129	Other tobacco materials	Million lb.				
970099	All other materials and components, parts, containers, and supplies	.....	(X)	70.6	(X)	14.3
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	22.7	(X)	23.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (S) Withheld because estimate did not meet publication standards. (X) Not collected. (NA) Not available. n.s.k. Not specified by kind.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]For 1972, material code 307903 was included with material code 970099.

[3]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

Weaving Mills

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DESCRIPTION OF INDUSTRIES

WEAVING MILLS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2211	Weaving Mills, Cotton
2221	Weaving Mills, Manmade Fiber and Silk
2231	Weaving and Finishing Mills, Wool
2241	Narrow Fabric Mills

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2211, WEAVING MILLS, COTTON

This industry comprises establishments primarily engaged in weaving fabrics over 12 inches in width, wholly or chiefly by weight of cotton. Establishments primarily engaged in weaving cotton carpets and rugs are classified in industry 2271, those tufting carpets and rugs in industry 2272, those making tire cord and fabric in industry 2296, and finishers of cotton broad-woven fabrics in industry 2261.

The total value of shipments for establishments classified in the Cotton Weaving Mills industry amounted to $4,431 million in 1977, an increase of 67 percent from 1972. The value of shipments of products classified as primary to the industry was $,5645 million, an increase of 54 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $1,945 million in 1977, was 55 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 117.2 thousand employees, a decrease of 3 percent from 1972. The leading States in employment were North Carolina, Georgia, South Carolina, and Alabama, accounting for approximately 90 percent of the industry's 1977 employment.

Certain products primary to industry 2211 are also primary to Industry 2261, Finishing Plants, Cotton. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2221, WEAVING MILLS, MANMADE FIBER AND SILK

This industry comprises establishments primarily engaged in weaving fabrics over 12 inches in width, wholly or chiefly by weight of silk and manmade fibers including glass. Establishments primarily engaged in weaving carpets and rugs from these fibers are classified in industry 2271, those tufting carpets and rugs from these fibers in industry 2272, those making tire cord and fabric in industry 2296, and finishers of manmade fiber and silk broad woven goods in industry 2262.

The total value of shipments for establishments classified in the Manmade Fibers and Silk Weaving Mills industry amounted to $6,326 million in 1977, an increase of 64 percent from 1972. The value of shipments of products classified as primary to the industry was $7,285 million, an increase of 77 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $2,791 million in 1977, was 52 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 150.8 thousand employees, an increase of less than 1 percent from 1972. The leading States in employment were South Carolina, North Carolina, Virginia, and Georgia, accounting for approximately 80 percent of the industry's 1977 employment.

Certain products primary to industry 2221 are also primary to Industry 2262, Finishing Plants, Manmade Fiber and Silk. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2231, WEAVING AND FINISHING MILLS, WOOL

This industry comprises establishments primarily engaged in weaving fabrics over 12 inches in width, wholly or chiefly by weight of wool, mohair, or similar animal fibers; those dyeing and finishing all woven wool fabrics or dyeing wool, tops, or yarn; and those shrinking and sponging wool goods for the trade. Establishments primarily engaged in weaving wool carpets and rugs are classified in industry 2271, and those tufting wool carpets and rugs in industry 2272.

The total value of shipments for establishments classified in the Wool Weaving and Finishing Mills industry amounted to $583 million in 1977, an increase of 30 percent from 1972. The value of shipments of products classified as primary to the industry was $581 million, an increase of 32 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $313 million in 1977, was 31 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 14.6 thousand employees, a decrease of 25 percent from 1972. The leading States in employment were Maine, Massachusetts, New Hampshire, and Georgia, accounting for approximately 60 percent of the industry's 1977 employment. This represents a shift from 1972 when Maine, New Hampshire, Massachusetts, and North Carolina accounted for approximately 85 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2241, NARROW FABRIC MILLS

This industry comprises establishments primarily engaged in weaving or braiding fabrics 12 inches or narrower in width of cotton, wool, silk, and manmade fibers, including glass fibers. Establishments primarily engaged in producing fabric covered elastic yarn or thread are also included in this industry.

The total value of shipments for establishments classified in the Narrow Fabric Mills industry amounted to $683 million in 1977, an increase of 21 percent from 1972. The value of shipments of products classified as primary to the industry was $645 million, an increase of 24 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $351 million in 1977, was 21 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 20.8 thousand employees, a decrease of 23 percent from 1972. The leading States in employment were North Carolina, Rhode Island, South Carolina, and Pennsylvania, accounting for approximately 55 percent of the industry's 1977 employment. This represents a shift from 1972 when Rhode Island, Pennsylvania, North Carolina, and South Carolina accounted for approximately 55 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 8 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2211, WEAVING MILLS, COTTON																
1977 Census--	211	314	192	117.2	1 046.8	107.2	214.3	902.0	1 944.5	2 579.8	4 431.2	187.2	(NA)	657.8	84	66
1976 ASM----	(NA)	(NA)	(NA)	109.8	917.0	100.5	204.1	785.8	1 686.5	2 074.8	3 717.9	124.3	1 623.5	521.0	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	106.8	768.9	97.8	184.5	652.8	1 336.9	1 588.2	2 956.5	133.4	1 579.2	460.2	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	120.9	837.1	111.6	219.0	718.3	1 551.8	1 839.0	3 280.5	137.0	1 566.8	524.7	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	119.0	779.1	110.3	227.7	683.4	1 321.6	1 314.6	2 742.3	93.9	1 500.3	391.2	(NA)	(NA)
1972 Census--	190	307	227	121.3	745.2	112.1	235.8	654.9	1 256.3	1 389.7	2 660.6	72.7	1 547.7	391.0	84	60
1971 ASM----	(NA)	(NA)	(NA)	135.3	773.5	124.2	258.4	672.8	1 255.7	1 379.8	2 650.5	77.1	1 631.3	466.3	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	141.7	770.5	131.0	272.1	675.7	1 257.1	1 338.9	2 605.8	73.7	1 611.9	465.1	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	162.3	837.3	150.5	312.9	734.6	1 383.9	1 515.7	2 953.1	97.1	1 788.5	517.6	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	179.3	867.0	166.9	345.8	767.5	1 427.0	1 766.8	3 145.1	107.5	(NA)	642.5	(NA)	(NA)
1967 Census--	218	393	331	202.8	938.4	189.3	398.0	831.5	1 624.0	1 759.1	3 327.7	171.5	(NA)	646.5	87	79
1966 ASM----	(NA)	(NA)	(NA)	208.6	959.9	195.2	424.0	854.0	1 730.3	1 852.4	3 561.9	222.0	(NA)	590.6	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	204.9	888.0	191.5	414.6	791.2	1 629.1	1 751.0	3 360.9	167.2	(NA)	580.9	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	203.6	822.0	190.7	406.8	728.1	1 404.3	1 756.2	3 171.3	138.2	1 764.5	565.3	(NA)	(NA)
1963 Census--	229	407	350	209.0	771.6	195.5	403.4	688.4	1 256.8	1 823.8	3 104.1	113.4	1 653.9	625.8	92	80
INDUSTRY 2221, WEAVING MILLS, MANMADE FIBER AND SILK																
1977 Census--	268	449	351	151.0	1 428.7	134.6	275.4	1 168.7	2 790.9	3 574.5	6 325.9	260.2	(NA)	871.0	86	74
1976 ASM----	(NA)	(NA)	(NA)	161.1	1 397.8	144.0	296.0	1 161.0	2 600.0	3 345.9	5 869.1	41.7	222.3	845.8	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	151.7	1 149.7	135.2	261.4	935.5	1 964.8	2 670.2	4 632.0	10.9	185.6	766.5	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	157.8	1 165.3	141.2	286.8	964.7	2 192.3	2 668.6	4 776.8	16.9	227.7	727.7	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	161.4	1 129.2	145.4	310.6	948.2	2 030.0	2 326.6	4 368.7	188.5	2 399.7	641.4	(NA)	(NA)
1972 Census--	256	412	341	149.7	979.4	134.9	292.7	825.2	1 831.6	2 062.6	3 856.6	136.2	2 137.9	586.4	81	74
1971 ASM----	(NA)	(NA)	(NA)	139.7	826.7	125.8	260.2	691.5	1 399.7	1 711.8	3 129.6	112.1	1 957.0	526.6	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	145.2	820.1	130.8	271.3	687.7	1 416.6	1 767.3	3 171.6	105.9	1 863.5	543.5	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	139.1	796.6	126.2	267.2	654.4	1 350.6	1 709.5	3 048.5	116.3	1 675.4	489.1	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	132.1	697.7	119.8	260.9	595.7	1 273.8	1 662.6	2 918.3	85.7	1 485.9	477.9	(NA)	(NA)
1967 Census--	272	396	312	108.6	528.8	98.3	209.3	445.6	921.6	1 365.5	2 289.6	111.1	1 179.0	385.7	85	74
1966 ASM----	(NA)	(NA)	(NA)	102.5	498.2	92.3	201.9	417.4	885.7	1 365.3	2 240.9	128.1	(NA)	353.3	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	94.3	441.4	84.7	188.8	370.9	840.9	1 277.1	2 110.9	79.7	(NA)	337.6	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	94.4	417.3	85.0	187.5	347.8	786.9	1 221.4	2 001.0	50.8	766.4	340.4	(NA)	(NA)
1963 Census--	277	355	300	88.2	366.0	79.8	171.4	306.5	661.5	1 072.3	1 722.4	35.8	715.4	303.2	86	82
INDUSTRY 2231, WEAVING AND FINISHING MILLS, WOOL																
1977 Census--	154	165	84	14.6	136.6	12.6	25.9	105.8	312.9	283.7	583.3	14.9	(NA)	111.0	83	80
1976 ASM[5]---	(NA)	(NA)	(NA)	15.5	133.6	13.1	26.9	98.5	264.6	313.9	571.6	41.7	222.3	94.2	(NA)	(NA)
1975 ASM[6]---	(NA)	(NA)	(NA)	14.3	112.1	11.8	22.2	82.1	198.1	251.3	454.1	10.9	185.6	85.2	(NA)	(NA)
1974 ASM[6]---	(NA)	(NA)	(NA)	17.3	130.4	14.5	29.1	96.4	248.1	292.9	530.6	16.9	227.7	108.8	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	18.4	133.5	15.7	32.5	99.8	248.6	244.2	484.7	10.1	208.0	102.6	(NA)	(NA)
1972 Census--	178	198	119	19.4	132.1	16.5	34.7	99.0	239.4	217.1	450.1	11.6	225.2	90.7	84	83
1971 ASM----	(NA)	(NA)	(NA)	25.0	156.9	20.7	41.7	117.1	226.1	296.1	546.8	31.5	310.8	100.3	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	32.9	191.0	27.8	57.2	148.2	328.5	446.8	784.9	25.2	329.9	127.6	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	37.2	207.3	32.7	67.4	163.4	375.3	548.4	924.7	19.7	332.5	147.6	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	39.1	214.6	34.3	73.2	170.8	432.6	636.6	1 070.7	29.4	346.6	166.3	(NA)	(NA)
1967 Census--	252	310	217	41.8	216.3	36.6	76.0	170.4	428.6	657.1	1 090.0	28.0	341.5	177.2	82	96
1966 ASM----	(NA)	(NA)	(NA)	44.3	221.1	38.6	81.2	170.7	446.2	731.9	1 166.8	32.0	(NA)	185.7	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	43.5	208.2	38.0	80.2	161.8	387.5	687.3	1 073.5	17.0	(NA)	177.9	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	44.4	198.9	38.4	81.0	156.2	371.9	649.6	1 026.5	19.0	309.1	179.1	(NA)	(NA)
1963 Census--	304	351	249	47.4	202.9	41.6	85.0	160.2	386.6	629.5	1 010.7	15.5	299.1	187.5	86	96
INDUSTRY 2241, NARROW FABRIC MILLS																
1977 Census--	292	335	182	20.8	171.6	18.1	35.7	130.9	350.8	333.9	682.9	16.2	(NA)	109.3	96	97
1976 ASM----	(NA)	(NA)	(NA)	20.1	159.7	17.2	34.0	119.9	322.3	332.5	646.6	11.3	218.7	109.7	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	19.2	140.2	16.0	31.1	102.1	259.0	272.2	540.4	12.1	235.5	100.3	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	23.9	156.0	20.6	39.9	120.5	319.8	314.1	606.9	16.4	232.5	113.2	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	26.8	165.0	23.2	46.3	126.9	308.9	299.0	609.0	24.3	221.3	106.4	(NA)	(NA)
1972 Census--	323	376	215	27.1	162.3	23.5	47.3	120.9	289.0	276.8	566.2	11.2	194.2	94.6	93	97
1971 ASM----	(NA)	(NA)	(NA)	25.6	146.3	21.8	44.1	108.4	284.9	247.5	531.2	10.4	194.2	91.5	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	27.3	147.4	23.2	46.3	110.5	261.8	254.1	513.7	16.0	207.1	87.3	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	28.5	143.6	25.3	50.6	112.8	269.4	283.9	553.9	19.0	190.2	87.9	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	27.9	137.0	25.0	51.2	109.6	257.4	264.7	514.2	15.7	172.5	86.3	(NA)	(NA)
1967 Census--	345	384	220	26.2	121.1	23.3	46.7	96.3	214.4	233.7	445.1	15.7	164.3	70.0	94	96
1966 ASM----	(NA)	(NA)	(NA)	25.0	114.9	22.1	45.3	90.5	201.5	229.9	427.8	16.3	(NA)	67.8	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	23.4	102.5	20.8	41.9	79.8	185.9	198.7	378.9	12.1	(NA)	59.5	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	23.0	97.4	20.4	42.3	77.3	177.1	195.8	376.4	10.5	120.0	51.2	(NA)	(NA)
1963 Census--	350	384	215	23.2	91.9	20.6	40.6	73.0	172.5	176.8	349.1	6.9	110.0	55.8	91	97

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2211, WEAVING MILLS, COTTON											
1977 Census--	8 933	(NA)	91	2 000	4.20	58	81	(NA)	16 594	53	9.07
1976 ASM----	8 351	14 785	91	2 030	3.85	55	80	43	15 359	54	8.26
1975 ASM----	7 199	14 786	91	1 886	3.53	53	79	53	12 517	57	7.24
1974 ASM----	6 923	12 959	92	1 962	3.27	56	81	47	12 835	53	7.08
1973 ASM----	6 547	12 607	92	2 064	3.00	47	76	54	11 105	58	5.80
1972 Census--	6 143	12 759	92	2 103	2.77	52	80	58	10 356	59	5.32
1971 ASM----	5 716	12 058	91	2 080	2.60	52	81	61	9 280	61	4.85
1970 ASM----	5 437	11 375	92	2 077	2.48	51	80	61	8 871	61	4.61
1969 ASM----	5 158	11 019	92	2 079	2.34	51	79	60	8 526	60	4.42
1968 ASM----	4 835	10 356	93	2 071	2.21	56	83	59	7 958	60	4.12
1967 Census--	4 627	(NA)	93	2 102	2.08	52	81	(NA)	8 007	57	4.08
1966 ASM----	4 601	(NA)	93	2 172	2.01	52	78	(NA)	8 294	55	4.08
1965 ASM----	4 333	(NA)	93	2 165	1.90	52	78	(NA)	7 950	54	3.92
1964 ASM----	4 037	8 666	93	2 133	1.78	55	81	55	6 897	58	3.45
1963 Census--	3 691	7 913	93	2 063	1.70	58	83	53	6 013	61	3.11
INDUSTRY 2221, WEAVING MILLS, MANMADE FIBER AND SILK											
1977 Census--	9 464	(NA)	89	2 045	4.24	56	79	(NA)	18 488	51	10.13
1976 ASM----	8 676	17 952	89	2 055	3.92	57	80	49	16 139	53	8.78
1975 ASM----	7 578	17 858	89	1 933	3.57	57	82	58	12 951	58	7.51
1974 ASM----	7 384	15 200	89	2 031	3.38	55	80	50	13 892	53	7.64
1973 ASM----	6 996	14 868	90	2 136	3.05	53	79	54	12 577	55	6.53
1972 Census--	6 542	14 281	90	2 169	2.81	53	78	55	12 235	53	6.25
1971 ASM----	5 917	14 008	90	2 068	2.65	54	81	62	10 019	59	5.37
1970 ASM----	5 648	12 834	90	2 074	2.53	55	81	58	9 756	57	5.22
1969 ASM----	5 726	12 044	90	2 117	2.44	56	82	54	9 709	58	5.05
1968 ASM----	5 281	11 248	90	2 177	2.28	56	80	50	9 642	54	4.88
1967 Census--	4 669	10 856	90	2 129	2.12	59	82	51	8 486	57	4.40
1966 ASM----	4 660	(NA)	90	2 187	2.06	60	83	(NA)	8 640	56	4.38
1965 ASM----	4 680	(NA)	89	2 227	1.96	60	81	(NA)	8 917	52	4.45
1964 ASM----	4 420	8 118	90	2 205	1.85	61	81	38	8 335	53	4.19
1963 Census--	4 149	8 111	90	2 147	1.78	62	83	41	7 500	55	3.85
INDUSTRY 2231, WEAVING AND FINISHING MILLS, WOOL											
1977 Census--	9 333	(NA)	86	2 052	4.08	48	72	(NA)	21 383	43	12.06
1976 ASM----	8 619	14 341	84	2 053	3.66	54	76	38	17 070	50	9.83
1975 ASM----	7 839	12 979	82	1 881	3.69	55	80	40	13 853	56	8.92
1974 ASM----	7 537	13 161	83	2 006	3.31	55	79	42	14 341	52	8.52
1973 ASM----	7 255	11 304	85	2 070	3.07	50	77	42	13 510	53	7.64
1972 Census--	6 809	11 608	85	2 103	2.85	48	77	50	12 340	55	6.89
1971 ASM----	6 276	12 432	82	2 014	2.80	54	82	56	9 044	69	5.42
1970 ASM----	5 805	10 027	84	2 057	2.59	56	81	42	9 984	58	5.74
1969 ASM----	5 572	8 938	87	2 061	2.42	59	81	35	10 088	55	5.56
1968 ASM----	5 488	8 864	87	2 134	2.33	59	79	32	11 063	49	5.90
1967 Census--	5 174	8 169	87	2 076	2.24	60	80	31	10 253	50	5.63
1966 ASM----	4 990	(NA)	87	2 103	2.10	62	81	(NA)	10 072	49	5.49
1965 ASM----	4 786	(NA)	87	2 110	2.01	64	83	(NA)	8 908	53	4.83
1964 ASM----	4 479	6 961	86	2 109	1.92	63	82	30	8 376	53	4.59
1963 Census--	4 280	6 310	87	2 043	1.88	62	82	29	8 156	52	4.54
INDUSTRY 2241, NARROW FABRIC MILLS											
1977 Census--	8 252	(NA)	87	1 970	3.67	48	74	(NA)	16 870	48	9.83
1976 ASM----	7 945	10 660	85	1 976	3.52	51	76	33	16 034	49	9.47
1975 ASM----	7 302	12 265	83	1 943	3.28	50	76	43	13 489	54	8.32
1974 ASM----	6 527	9 728	86	1 936	3.02	51	77	38	13 380	48	8.01
1973 ASM----	6 156	8 257	86	1 995	2.74	49	76	36	11 526	53	6.67
1972 Census--	5 988	7 186	86	2 012	2.55	48	77	34	10 664	56	6.10
1971 ASM----	5 714	7 585	85	2 022	2.45	46	74	36	11 128	51	6.46
1970 ASM----	5 399	7 586	84	1 995	2.38	49	78	40	9 589	56	5.65
1969 ASM----	5 038	6 673	88	2 000	2.22	51	77	34	9 452	53	5.32
1968 ASM----	4 910	6 182	89	2 048	2.14	51	78	33	9 225	53	5.02
1967 Census--	4 622	6 270	88	2 004	2.06	52	79	36	8 183	56	4.59
1966 ASM----	4 596	(NA)	88	2 049	1.99	53	80	(NA)	8 060	57	4.44
1965 ASM----	4 380	(NA)	88	2 014	1.90	52	79	(NA)	7 944	55	4.43
1964 ASM----	4 234	5 217	88	2 073	1.82	52	77	31	7 700	54	4.18
1963 Census--	3 961	4 741	88	1 970	1.79	50	76	31	7 435	53	4.24

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2211, WEAVING MILLS, COTTON													
United States	-	**314**	**192**	**117.2**	**1 046.8**	**107.2**	**214.3**	**902.0**	**1 944.5**	**2 579.8**	**4 431.2**	**187.2**	**121.3**	**1 256.3**
New England Division:													
Maine	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Rhode Island	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Middle Atlantic Division:														
New York	E2	20	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
New Jersey	E2	16	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
East North Central Division:														
Illinois	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Virginia	-	6	5	3.1	26.2	2.8	5.6	22.7	57.1	62.8	118.8	6.0	FF	(D)
North Carolina	-	50	40	35.4	327.3	32.4	65.1	284.3	636.3	878.8	1 446.3	48.7	32.5	294.0
South Carolina	-	57	49	25.6	235.2	23.6	47.5	205.3	377.8	497.7	872.0	39.5	31.4	337.6
Georgia	-	50	40	29.1	255.4	26.3	53.1	215.1	517.4	665.0	1 173.5	44.1	27.7	318.3
East South Central Division:														
Tennessee	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Alabama	-	27	25	15.1	125.1	13.8	26.8	108.9	204.4	294.4	494.4	21.5	16.5	156.0
Mississippi	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West South Central Division:														
Arkansas	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Texas	-	9	4	1.2	9.7	1.1	2.1	8.5	11.1	29.3	40.1	(D)	EE	(D)
Pacific Division:														
California	E2	20	3	0.4	3.4	0.4	0.7	2.8	6.7	7.3	14.0	0.5	(NA)	(NA)
INDUSTRY 2221, WEAVING MILLS, MANMADE FIBER AND SILK														
United States	-	**449**	**351**	**151.0**	**1 428.7**	**134.6**	**275.4**	**1 168.7**	**2 790.9**	**3 574.5**	**6 325.9**	**260.2**	**149.7**	**1 831.6**
New England Division:														
Maine	-	8	8	1.3	13.0	1.2	2.6	11.4	23.8	14.3	36.8	(D)	1.5	10.8
New Hampshire	-	3	3	0.6	4.7	0.5	1.0	3.8	6.1	9.0	14.2	(D)	0.8	7.1
Massachusetts	-	17	15	4.0	42.7	3.3	6.8	29.0	70.8	98.9	166.6	4.5	3.1	48.3
Rhode Island	E1	15	10	0.7	7.0	0.6	1.3	5.8	11.3	14.2	25.9	1.4	1.4	20.1
Connecticut	-	7	6	1.2	10.9	1.0	2.0	8.1	21.0	21.9	44.6	0.7	1.5	18.5
Middle Atlantic Division:														
New York	E2	20	7	0.8	8.2	0.6	1.2	6.2	9.8	16.3	26.5	1.2	1.2	14.1
New Jersey	-	18	11	0.8	9.7	0.6	1.3	6.7	15.9	28.4	44.4	0.4	1.9	23.7
Pennsylvania	-	36	30	4.5	40.7	4.0	8.4	33.7	68.7	90.5	160.5	2.9	5.8	69.7
South Atlantic Division:														
Virginia	-	17	16	14.5	139.8	12.9	26.6	113.0	268.4	325.0	586.7	42.1	FF	(D)
North Carolina	-	79	74	40.6	381.4	36.3	73.8	312.1	774.5	1 060.6	1 828.6	64.5	44.1	528.4
South Carolina	-	107	106	57.5	541.1	52.4	106.9	459.3	1 035.8	1 324.0	2 339.7	80.3	51.7	633.1
Georgia	-	27	24	11.3	110.9	9.5	20.1	83.6	264.8	303.2	566.5	23.7	FF	(D)
East South Central Division:														
Tennessee	-	7	5	2.4	25.8	2.1	4.6	19.3	47.3	36.3	79.1	(D)	FF	(D)
Alabama	-	9	9	5.9	49.8	5.3	10.3	41.5	89.9	123.9	216.1	13.6	4.8	54.1
West South Central Division:														
Texas	-	12	7	3.3	29.9	2.9	6.1	25.1	58.2	71.4	129.5	(D)	EE	(D)
Pacific Division:														
California	E3	26	7	0.4	3.6	0.4	0.7	2.7	6.4	12.5	19.0	0.8	BB	(D)
INDUSTRY 2231, WEAVING AND FINISHING MILLS, WOOL														
United States	-	**165**	**84**	**14.6**	**136.6**	**12.6**	**25.9**	**105.8**	**312.9**	**283.7**	**583.3**	**14.9**	**19.4**	**239.4**
New England Division:														
Maine	-	11	9	3.1	27.4	2.7	5.8	22.7	58.4	77.9	136.4	1.8	2.8	36.7
New Hampshire	-	6	6	1.7	15.8	1.6	3.2	12.9	37.3	19.3	56.0	1.3	1.3	16.7
Massachusetts	-	24	15	2.2	18.9	1.8	3.6	14.4	45.2	30.6	75.3	2.9	2.8	33.3
Rhode Island	E1	17	10	1.0	9.8	1.0	2.3	8.8	20.8	19.2	40.3	0.6	0.6	6.1
Connecticut	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	6.4
Middle Atlantic Division:														
New York	E1	23	7	0.9	11.8	0.5	1.2	6.0	21.9	7.4	29.8	1.7	1.3	21.2
Pennsylvania	-	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	13.9
East North Central Division:														
Ohio	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Division:														
Minnesota	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Atlantic Division:														
Virginia	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Carolina	-	4	4	0.5	4.9	0.5	0.9	3.8	14.2	21.1	31.9	(D)	BB	(D)
Georgia	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East South Central Division:														
Alabama	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West South Central Division:														
Texas	E1	5	2	0.3	2.0	0.3	0.5	1.7	3.1	1.8	4.7	(D)	AA	(D)
Pacific Division:														
Washington	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Oregon	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2231-11, Manufacturers' Own Wool													
United States	-	**122**	**63**	**12.8**	**119.8**	**11.0**	**22.9**	**93.3**	**285.3**	**276.2**	**547.9**	**13.5**	**17.4**	**216.6**
New England Division:													
Maine	-	11	9	3.1	27.4	2.7	5.8	22.7	58.4	77.9	136.4	1.8	FF	(D)
New Hampshire	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Massachusetts	-	16	11	2.0	17.2	1.7	3.3	13.2	42.8	29.8	72.1	2.8	2.5	29.9
Rhode Island	-	9	6	0.9	8.5	0.8	2.0	7.8	19.1	18.3	37.7	0.6	0.4	4.2
Connecticut	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Middle Atlantic Division:														
New York	E1	15	4	0.7	10.7	0.4	1.0	5.1	20.5	6.9	27.7	1.7	1.0	18.0
Pennsylvania	-	6	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
East North Central Division:														
Ohio	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Division:														
Minnesota	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Atlantic Division:														
Virginia	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Carolina	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Georgia	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East South Central Division:														
Alabama	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West South Central Division:														
Texas	E1	8	2	0.3	2.0	0.3	0.5	1.7	3.1	1.8	4.7	(D)	AA	(D)
Pacific Division:														
Washington	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Oregon	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Industry 2231-51, Jobbers, Commission Weaving														
United States	-	**42**	**20**	**1.7**	**15.3**	**1.6**	**2.9**	**11.5**	**23.3**	**6.3**	**30.0**	**0.6**	**2.1**	**22.8**
New England Division:														
New Hampshire	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts	E1	8	4	0.2	1.7	0.2	0.3	1.2	2.4	0.8	3.2	0.1	0.3	3.4
Rhode Island	E2	8	4	0.2	1.3	0.2	0.3	1.0	1.7	0.9	2.6	(Z)	0.2	1.9
Middle Atlantic Division:														
Pennsylvania	E3	7	4	0.3	2.1	0.2	0.4	1.5	3.2	1.2	4.4	0.1	(NA)	(NA)
INDUSTRY 2241, NARROW FABRIC MILLS														
United States	-	**335**	**162**	**20.8**	**171.6**	**18.1**	**35.7**	**130.9**	**350.8**	**333.9**	**682.9**	**16.2**	**27.1**	**289.0**
New England Division:														
Maine	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Hampshire	-	13	9	0.6	6.0	0.7	1.4	4.6	18.8	8.2	26.9	0.5	0.7	12.7
Massachusetts	-	20	12	1.2	9.6	1.0	1.9	7.0	19.4	14.4	34.1	0.4	1.4	15.8
Rhode Island	-	42	28	3.4	28.8	2.9	5.6	21.2	49.5	55.6	105.4	2.7	4.3	46.6
Connecticut	E3	12	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Middle Atlantic Division:														
New York	E1	51	12	1.6	15.2	1.2	2.3	9.3	34.6	27.0	60.5	1.7	2.0	22.8
New Jersey	E1	24	9	0.5	4.7	0.4	0.8	3.3	10.9	8.1	19.0	0.6	0.9	11.3
Pennsylvania	-	37	22	2.2	19.1	1.9	3.8	14.6	32.2	33.4	65.6	0.9	4.2	35.3
East North Central Division:														
Ohio	-	6	3	0.4	3.9	0.4	0.7	2.9	8.5	6.5	14.9	(D)	0.3	4.9
South Atlantic Division:														
Maryland	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Virginia	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
North Carolina	-	42	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	49.4
South Carolina	-	17	14	2.4	19.8	2.1	4.1	15.5	40.4	50.1	90.0	(D)	2.8	25.3
Georgia	E7	12	4	0.3	2.5	0.3	0.6	2.1	4.3	3.9	8.2	0.1	BB	(D)
Florida	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.6
East South Central Division:														
Tennessee	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Alabama	-	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Mississippi	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Pacific Division:														
California	E2	11	4	0.3	2.5	0.3	0.6	1.9	4.3	3.9	8.3	0.1	AA	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Weaving mills, cotton (SIC 2211)	Weaving mills, manmade fiber and silk (SIC 2221)	Weaving and finishing mills, wool (SIC 2231)			Narrow fabric mills (SIC 2241)
				Total	Manufacturers (SIC 2231-11)	Commission mills (SIC 2231-51)	
Primary product specialization ratio[1]	percent	84	86	83	(NA)	(NA)	96
Coverage ratio[2]	do	66	74	80	(NA)	(NA)	97
All establishments	number	314	449	[7]165	[7]122	[7]42	335
With 1 to 19 employees	do	122	98	61	59	22	153
With 20 to 99 employees	do	28	87	41	24	17	115
With 100 employees or more	do	164	264	43	39	3	67
All employees, average for year	1,000	117.2	151.0	14.6	12.8	1.7	20.8
Payroll for year, all employees	mil. dol.	1 046.8	1 428.7	136.6	119.8	15.3	171.6
Production workers:							
Average for year	1,000	107.2	134.6	12.6	11.0	1.6	18.1
March	do	107.5	135.7	12.5	11.0	1.5	17.9
May	do	108.3	135.9	12.8	11.1	1.6	18.5
August	do	107.0	134.1	12.8	11.0	1.6	18.1
November	do	105.8	132.8	12.4	10.8	1.5	17.8
Hours	millions	214.3	275.4	25.9	22.9	2.9	35.7
January to March	do	54.2	70.2	6.5	5.7	0.7	8.7
April to June	do	56.1	71.3	6.9	6.0	0.8	9.5
July to September	do	50.1	65.3	6.2	5.4	0.7	8.6
October to December	do	54.0	68.6	6.4	5.7	0.7	8.9
Wages	mil. dol.	902.0	1 168.7	105.8	93.3	11.5	130.9
Cost of materials, etc.	do	2 579.8	3 574.5	283.7	276.2	6.3	333.9
Materials, parts, containers, etc., consumed	do	2 344.4	3 230.2	225.0	220.0	3.9	299.6
Resales	do	3.2	12.7	7.7	7.7	-	14.9
Fuels consumed	do	39.0	54.9	9.8	8.3	1.4	5.4
Purchased electric energy	do	107.4	139.4	7.6	6.7	0.8	10.3
Contract work	do	85.9	137.3	33.5	33.4	0.1	3.8
Value of shipments, including resales	do	4 431.2	6 325.9	583.3	547.9	30.0	682.9
Value of resales	do	3.5	19.5	9.4	9.3	0.1	22.0
Value added by manufacture	do	1 944.5	2 790.9	312.9	285.3	23.3	350.8
Manufacturers' inventories:							
Beginning of year	do	553.9	834.8	96.2	93.0	2.0	106.1
Finished products	do	191.4	259.3	30.8	29.8	0.5	33.3
Work in process	do	156.4	332.3	36.6	35.9	0.6	32.6
Materials, supplies, fuel, etc.	do	206.1	243.2	28.8	27.3	0.9	40.2
End of year	do	657.8	871.0	111.0	108.0	1.6	109.3
Finished products	do	230.7	265.4	34.7	33.8	0.3	34.1
Work in process	do	210.2	365.6	46.0	45.4	0.5	33.5
Materials, supplies, fuel, etc.	do	216.9	240.0	30.3	28.8	0.9	41.7
Capital expenditures for plant and equipment	do	201.9	280.4	16.5	15.1	0.6	18.1
New capital expenditures	do	187.2	260.2	14.9	13.5	0.6	16.2
New buildings and other structures	do	32.8	23.3	4.0	3.2	0.1	4.0
New machinery and equipment	do	154.4	236.9	11.0	10.3	0.5	12.1
Used capital expenditures	do	14.7	20.2	1.5	1.5	(Z)	2.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Weaving mills, cotton (SIC 2211)		Weaving mills, manmade fiber and silk (SIC 2221)		Weaving and finishing mills, wool (SIC 2231)		Narrow fabric mills (SIC 2241)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	12.6	1	11.1	5	1.3	6	(1.3)	16
Response coverage ratio[2] (percent)	62.4	(X)	57.6	(X)	60.7	(X)	69.0	(X)
Machinery	51.6	1	50.7	10	5.1	10	5.4	13
Response coverage ratio[2] (percent)	63.3	(X)	61.4	(X)	56.9	(X)	64.6	(X)
Cost of purchased communication services	2.4	10	17.0	4	(0.9)	16	(1.5)	16
Response coverage ratio[2] (percent)	68.4	(X)	79.5	(X)	60.6	(X)	59.7	(X)
Rental payments	8.9	5	18.9	2	1.6	6	3.7	11
Buildings and other structures	3.7	10	6.4	6	1.1	8	(2.5)	16
Machinery and equipment	5.2	3	12.5	1	0.5	10	1.2	10
Supplemental labor costs	149.1	1	202.8	1	20.9	3	24.6	3
Legal costs	80.9	1	111.5	1	12.7	4	13.9	3
Voluntary costs	68.3	1	91.3	1	8.2	2	10.7	4
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	440.7	1	616.0	1	53.5	8	66.4	10
New capital expenditures	34.1	4	22.7	3	4.2	7	(15.8)	81
Used capital expenditures	4.7	2	4.6	1	0.1	0	(0.1)	93
Retirements	8.3	1	9.2	2	3.7	4	(4.6)	38
End of year	471.2	1	634.0	1	54.0	8	77.7	5
Machinery and equipment:								
Beginning of year	1,388.6	1	2,156.5	1	111.9	9	157.9	6
New capital expenditures[3]	153.3	2	236.4	1	(13.9)	10	14.0	13
Automobiles, trucks, etc., for highway use[3]	(0.6)	(A)	(2.7)	(A)	(0.8)	(A)	(0.3)	(A)
Computers and peripheral data processing equipment[3]	(1.9)	(A)	(0.5)	(A)	(0.3)	(A)	(0.1)	(A)
All other[3]	(142.9)	(A)	(228.2)	(A)	(10.0)	(A)	(12.7)	(A)
New machinery and equipment, n.s.k.[4]	(7.9)	(A)	(4.9)	(A)	(2.8)	(A)	(0.8)	(A)
Used capital expenditures	10.1	1	15.6	1	1.4	1	(3.6)	55
Retirements	46.6	1	84.0	1	6.2	8	(11.2)	25
End of year	1,505.4	1	2,324.5	1	121.0	8	164.3	7
Total gross value of depreciable assets:								
Beginning of year	1,829.3	1	2,772.4	1	165.4	8	224.3	7
New capital expenditures	187.4	2	259.0	1	18.0	14	(29.8)	46
Used capital expenditures	14.8	1	20.2	1	1.5	1	(3.7)	54
Retirements	55.0	1	93.2	1	9.9	6	(15.8)	22
End of year	1,976.5	1	2,958.5	1	175.1	8	242.0	4
Depreciation charges during 1977	103.6	1	164.2	1	7.8	7	15.6	10
Buildings and other structures	16.6	1	21.6	1	1.5	7	(3.1)	22
Machinery and equipment	87.0	1	142.6	1	6.2	7	12.4	9

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2211, WEAVING MILLS, COTTON												
Total	-	314	117.2	1 046.8	107.2	214.3	902.0	1 944.5	2 579.8	4 431.2	187.2	557.8
Establishments with an average of—												
1 to 4 employees	E8	77	0.1	1.1	0.1	0.2	1.0	1.9	2.8	5.1	0.2	0.7
5 to 9 employees	E8	20	0.1	1.2	0.1	0.3	1.0	2.5	2.7	5.2	0.2	0.7
10 to 19 employees	E5	25	0.4	3.2	0.3	0.6	2.5	7.2	8.0	15.0	0.4	2.0
20 to 49 employees	E1	19	0.7	6.1	0.6	1.2	4.5	19.8	15.6	34.8	1.4	4.5
50 to 99 employees	-	9	0.7	5.4	0.6	1.3	4.6	12.6	15.4	27.9	0.5	3.9
100 to 249 employees	-	29	5.0	44.8	4.6	9.1	38.8	72.0	105.7	177.8	13.8	19.9
250 to 499 employees	-	51	18.5	167.6	17.0	34.7	145.4	276.4	389.3	653.8	34.8	90.9
500 to 999 employees	-	55	37.2	333.0	34.4	69.1	290.1	547.9	801.5	1 343.0	39.6	152.6
1,000 to 2,499 employees	-	26	37.1	331.0	33.4	65.8	278.9	651.0	752.1	1 379.2	80.9	234.8
2,500 employees or more	-	3	17.3	153.2	16.0	31.0	135.1	353.3	486.9	789.4	15.4	147.9
Covered by administrative records[2]	E0	95	0.5	4.4	0.5	1.0	3.8	9.2	10.7	19.9	0.7	2.7
INDUSTRY 2221, WEAVING MILLS, MANMADE FIBER AND SILK												
Total	-	449	151.0	1 428.7	134.6	275.4	1 168.7	2 790.9	3 574.5	6 325.9	260.2	871.0
Establishments with an average of—												
1 to 4 employees	E7	55	0.1	0.7	0.1	0.1	0.6	0.5	1.6	2.9	0.1	0.4
5 to 9 employees	E5	20	0.1	1.2	0.1	0.3	1.0	2.2	4.3	6.5	0.3	1.2
10 to 19 employees	E4	23	0.3	2.9	0.3	0.6	2.4	7.2	9.8	16.8	0.6	2.2
20 to 49 employees	E2	48	1.6	14.8	1.4	2.8	11.2	26.2	34.4	60.1	2.1	8.7
50 to 99 employees	E1	39	2.9	26.9	2.5	5.2	21.9	56.2	67.0	123.0	2.2	18.3
100 to 249 employees	-	67	10.4	110.4	8.8	18.4	84.2	252.3	346.1	595.6	11.8	75.1
250 to 499 employees	-	92	33.3	310.3	29.9	61.7	256.6	641.5	773.9	1 413.5	62.3	188.0
500 to 999 employees	-	78	55.2	518.5	49.6	100.9	430.8	983.4	1 205.0	2 162.6	(180.7)	295.4
1,000 to 2,499 employees	-	24	32.1	302.1	28.4	58.5	241.9	571.4	894.0	1 463.4	(D)	204.6
2,500 employees or more	-	3	14.9	141.0	13.5	26.8	118.2	250.0	238.4	481.6	(D)	77.1
Covered by administrative records[2]	E0	69	0.5	4.6	0.5	1.0	3.8	8.0	10.7	18.7	0.8	2.7
INDUSTRY 2231, WEAVING AND FINISHING MILLS, WOOL												
Total	-	[5]165	14.6	136.5	12.5	25.9	105.8	312.9	283.7	583.3	14.9	111.0
Establishments with an average of—												
1 to 4 employees	E9	45	0.1	0.5	0.1	0.1	0.4	(Z)	1.1	2.2	(Z)	0.3
5 to 9 employees	E8	17	0.1	1.0	0.1	0.2	0.8	2.0	1.7	3.7	0.1	0.5
10 to 19 employees	E7	19	0.3	2.3	0.2	0.4	1.7	4.5	3.9	8.4	0.4	1.0
20 to 49 employees	E1	30	1.0	8.6	0.8	1.6	6.2	14.2	10.9	25.0	1.9	3.9
50 to 99 employees	-	11	0.7	6.0	0.6	1.1	4.2	16.2	23.5	37.9	0.4	8.1
100 to 249 employees	-	24	4.0	38.2	3.3	6.6	28.1	95.5	82.6	156.4	9.8	27.8
250 to 499 employees	-	13	4.7	45.4	4.1	8.4	34.3	104.1	74.1	175.5	3.3	30.9
500 to 999 employees	-	6	3.7	34.6	3.4	7.6	30.1	76.3	105.7	174.2	3.0	38.6
Covered by administrative records[2]	E0	65	0.4	3.7	0.4	0.7	2.8	6.6	6.5	13.1	0.3	1.6
Industry 2231-11, Manufacturers' Own Wool												
Total	-	[5]122	12.8	119.8	11.0	22.9	93.3	285.3	276.2	547.9	13.5	108.0
Establishments with an average of—												
1 to 4 employees	E9	39	(Z)	0.4	(Z)	0.1	0.3	(S)	1.1	2.0	(Z)	0.3
5 to 9 employees	E8	10	0.1	0.6	0.1	0.1	0.5	1.4	1.3	2.8	(Z)	0.4
10 to 19 employees	E7	10	0.1	1.3	0.1	0.2	0.9	2.6	3.0	5.6	0.3	0.9
20 to 49 employees	E1	14	(1.1)	(9.7)	(0.9)	(1.7)	(6.6)	(23.2)	(31.9)	(52.8)	(2.2)	(11.6)
50 to 99 employees	-	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	-	22	(7.7)	(73.3)	(6.5)	(13.2)	(55.0)	(181.8)	(133.2)	(310.6)	(8.0)	(56.2)
250 to 499 employees	-	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	-	6	3.7	34.6	3.4	7.6	30.1	76.3	105.7	174.2	3.0	38.6
Covered by administrative records[2]	E0	44	0.2	2.0	0.2	0.4	1.5	4.4	5.0	9.4	0.2	1.5
Industry 2231-51, Jobbers, Commission Weaving												
Total	E1	[5]42	1.7	15.3	1.6	2.9	11.5	23.3	5.3	30.0	0.6	1.6
Establishments with an average of—												
1 to 4 employees	E0	6	(Z)	0.1	(Z)	(Z)	0.1	0.1	0.1	0.2	(Z)	(Z)
5 to 9 employees	E5	7	(Z)	0.4	(Z)	0.1	0.3	0.6	0.3	0.9	(Z)	(Z)
10 to 19 employees	E5	9	0.1	1.0	0.1	0.2	0.9	1.9	0.9	2.9	(Z)	0.1
20 to 49 employees	E1	16	(0.6)	(4.9)	(0.5)	(1.0)	(3.9)	(7.2)	(2.6)	(10.1)	(0.2)	(0.4)
50 to 99 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	-	1	(0.9)	(8.8)	(0.9)	(1.6)	(6.4)	(13.5)	(2.4)	(15.9)	(0.4)	(1.1)
250 to 499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	21	0.2	1.6	0.2	0.4	1.3	2.2	1.4	3.7	0.1	0.1
INDUSTRY 2241, NARROW FABRIC MILLS												
Total	-	335	20.8	171.6	18.1	35.7	130.9	350.8	333.9	682.9	16.2	109.3
Establishments with an average of—												
1 to 4 employees	E5	55	0.1	0.7	0.1	0.2	0.6	1.5	1.8	4.9	0.1	0.6
5 to 9 employees	E7	49	0.4	3.0	0.3	0.6	2.1	5.7	5.6	11.3	0.2	1.8
10 to 19 employees	E4	49	0.6	5.6	0.6	1.1	4.3	11.4	13.2	24.6	0.4	3.1
20 to 49 employees	-	57	1.7	13.8	1.5	2.9	10.2	28.1	28.7	56.1	1.3	8.9
50 to 99 employees	-	58	4.0	31.5	3.6	6.9	25.2	58.1	60.5	118.8	4.3	15.6
100 to 249 employees	-	53	8.2	68.1	7.3	14.4	52.9	141.3	142.4	282.2	(9.8)	44.1
250 to 499 employees	-	11	3.5	29.2	3.0	5.9	22.7	66.4	54.6	120.5	(D)	20.1
500 to 999 employees	-	3	2.3	19.7	1.8	3.6	13.0	38.4	27.1	64.6	(D)	15.2
Covered by administrative records[2]	E0	111	0.7	5.8	0.7	1.2	4.3	10.0	11.2	21.3	0.4	3.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2211	**Weaving mills, cotton:**										
	Entire industry	314	117.2	1 046.8	107.2	214.3	902.0	1 944.5	2 579.8	4 431.2	187.2
	Establishments with 75 percent specialization or more	271	80.8	732.6	74.2	150.5	634.2	1 328.5	1 736.3	3 029.4	127.2
22111	Cotton duck and allied gray fabrics:										
	Establishments with this product class primary	18	10.5	83.9	9.5	18.2	71.6	132.9	203.0	333.1	7.5
	Establishments with 75 percent specialization or more in class	11	5.1	42.7	4.5	9.0	36.3	72.5	101.6	170.9	3.5
22112	Cotton sheeting and allied gray fabrics:										
	Establishments with this product class primary	37	21.7	181.1	20.0	39.5	158.7	275.6	424.6	695.6	16.9
	Establishments with 75 percent specialization or more in class	21	10.1	84.7	9.3	18.6	74.7	140.9	189.7	328.8	6.0
22113	Cotton print cloth yarn gray fabrics:										
	Establishments with this product class primary	16	9.1	86.4	8.4	16.4	73.5	146.4	146.0	296.0	10.3
	Establishments with 75 percent specialization or more in class	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22114	Cotton colored yarn gray fabrics:										
	Establishments with this product class primary	27	18.0	170.5	16.7	35.0	151.2	322.0	490.8	793.3	53.9
	Establishments with 75 percent specialization or more in class	21	15.9	151.7	14.9	31.3	135.7	290.1	432.7	703.7	(D)
22115	Fine cotton gray fabrics:										
	Establishments with this product class primary	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22116	Other broad woven cotton gray fabrics and specialties:										
	Establishments with this product class primary	47	18.0	171.1	16.3	33.6	146.0	263.9	376.3	635.6	27.5
	Establishments with 75 percent specialization or more in class	35	11.6	111.0	10.7	22.3	98.0	176.2	222.9	397.1	11.6
22117	Cotton broad woven finished fabrics:										
	Establishments with this product class primary	19	18.0	165.5	16.3	33.4	139.6	409.0	454.0	852.7	52.1
	Establishments with 75 percent specialization or more in class	14	11.5	107.9	10.4	21.7	91.7	234.3	265.1	491.5	43.7
22119	Fabricated cotton towels and washcloths:										
	Establishments with this product class primary	4	15.6	137.3	14.3	27.3	119.5	265.9	353.4	575.3	9.5
	Establishments with 75 percent specialization or more in class	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2221	**Weaving mills, manmade fiber and silk:**										
	Entire industry	449	151.0	1 428.7	134.6	275.4	1 168.7	2 790.9	3 574.5	6 325.9	260.2
	Establishments with 75 percent specialization or more	381	120.3	1 144.7	106.9	220.1	938.1	2 190.1	2 766.2	4 924.7	223.1
22211	100-percent filament rayon and/or acetate gray fabrics:										
	Establishments with this product class primary	29	5.7	55.0	5.0	10.5	45.0	96.3	142.3	239.0	0.9
	Establishments with 75 percent specialization or more in class	18	2.7	24.2	2.4	4.8	20.3	43.9	65.0	107.9	0.5
22212	100-percent filament gray fabrics, except rayon and/or acetate										
	Establishments with this product class primary	69	24.4	239.6	21.1	43.6	186.3	530.6	654.8	1 168.8	58.0
	Establishments with 75 percent specialization or more in class	51	17.3	171.7	14.9	30.3	131.4	376.3	458.5	825.3	28.6
22213	100-percent spun rayon and/or acetate gray fabrics:										
	Establishments with this product class primary	19	6.8	57.6	6.1	12.2	49.4	81.8	107.9	190.1	8.4
	Establishments with 75 percent specialization or more in class	12	4.1	33.2	3.6	7.5	28.8	48.6	55.1	104.5	4.6
22214	100-percent spun polyester/cotton gray fabrics:										
	Establishments with this product class primary	77	51.1	470.8	47.1	95.1	403.5	893.0	984.6	1 864.1	87.9
	Establishments with 75 percent specialization or more in class	57	35.3	330.3	32.6	66.0	287.8	605.0	660.8	1 257.0	73.9
22215	Other 100-percent spun noncellulosic gray fabrics:										
	Establishments with this product class primary	24	10.4	97.6	9.3	18.9	78.5	164.6	220.1	386.9	10.5
	Establishments with 75 percent specialization or more in class	12	4.1	39.2	3.5	7.6	31.4	68.6	86.6	155.4	6.8
22216	Combinations of filament and spun gray fabrics:										
	Establishments with this product class primary	31	10.8	106.1	9.5	20.0	84.6	202.3	261.1	463.9	29.7
	Establishments with 75 percent specialization or more in class	25	6.0	57.6	5.2	11.1	44.9	120.9	158.4	279.4	(D)
22217	Blanketing and other specialty gray fabrics:										
	Establishments with this product class primary	16	4.5	43.0	3.9	7.8	34.0	90.4	102.8	191.6	8.7
	Establishments with 75 percent specialization or more in class	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22218	Manmade fiber and silk broad woven finished fabrics:										
	Establishments with this product class primary	42	28.9	285.9	25.3	52.4	228.1	578.9	764.0	1 334.9	38.4
	Establishments with 75 percent specialization or more in class	28	11.0	109.3	9.4	20.0	84.3	197.5	301.0	497.1	16.8
22219	Manmade fiber and silk sheets and pillowcases:										
	Establishments with this product class primary	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2231	**Weaving and finishing mills, wool:**										
	Entire industry	165	14.6	136.6	12.6	25.9	105.8	312.9	283.7	583.3	14.9
	Establishments with 75 percent specialization or more	136	10.1	93.7	8.7	17.5	71.7	188.6	174.6	355.3	9.5
22311	Finished wool yarn, tops, or raw stock:										
	Establishments with this product class primary	6	0.2	2.1	0.2	0.3	1.3	4.3	3.6	7.4	(D)
	Establishments with 75 percent specialization or more in class	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22312	Broad woven wool gray fabrics:										
	Establishments with this product class primary	11	2.0	17.8	1.7	3.6	14.8	47.3	38.8	84.5	1.8
	Establishments with 75 percent specialization or more in class	6	1.1	9.3	0.9	1.9	8.2	15.9	19.3	34.4	0.6
22313	Broad woven wool apparel finished fabrics:										
	Establishments with this product class primary	23	7.6	67.5	6.6	14.4	57.1	158.4	189.9	336.7	6.7
	Establishments with 75 percent specialization or more in class	16	4.2	36.2	3.6	7.7	30.2	68.9	90.2	157.0	2.7
22314	Broad woven wool nonapparel finished fabrics and felts:										
	Establishments with this product class primary	12	2.0	24.3	1.5	3.0	13.9	60.5	26.1	86.3	3.1
	Establishments with 75 percent specialization or more in class	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22315	Commission finishing or sponging of broad woven wool fabrics:										
	Establishments with this product class primary	36	1.4	13.1	1.3	2.4	9.8	20.2	5.1	25.4	0.5
	Establishments with 75 percent specialization or more in class	36	1.4	13.1	1.3	2.4	9.8	20.2	5.1	25.4	0.5
22319	Broad woven wool and chiefly wool blankets:										
	Establishments with this product class primary	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977—Con.

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2241	**Narrow fabric mills:**										
	Entire industry	335	20.8	171.6	18.1	35.7	130.9	350.8	333.9	682.9	16.2
	Establishments with 75 percent specialization or more	316	19.2	156.6	16.9	33.4	121.6	319.6	311.7	628.8	14.1
22411	Narrow woven fabrics:										
	Establishments with this product class primary	122	12.3	102.8	10.6	20.8	79.1	217.7	208.6	423.3	11.3
	Establishments with 75 percent specialization or more in class	114	10.9	89.7	9.6	19.0	71.2	187.5	188.7	374.0	9.3
22414	Narrow braided fabrics:										
	Establishments with this product class primary	44	5.7	44.6	5.0	9.8	33.3	84.7	68.8	153.3	2.7
	Establishments with 75 percent specialization or more in class	38	4.6	36.4	4.0	7.9	26.7	62.8	56.3	118.7	(D)
22415	Covered rubber threads:										
	Establishments with this product class primary	15	1.2	10.7	1.1	2.3	8.4	24.9	31.0	55.7	0.8
	Establishments with 75 percent specialization or more in class	15	1.2	10.7	1.1	2.3	8.4	24.9	31.0	55.7	0.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis—Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2211	Weaving mills, cotton.....1977..	4,431.2	3,710.7	686.0	34.5	84	5,644.9	3,710.7	1,934.2	66
	1972..	2,660.6	2,207.7	417.2	35.7	84	3,673.2	2,207.7	1,465.5	60
	1967..	3,327.7	2,850.6	429.2	47.9	87	3,618.3	2,850.6	767.7	79
2221	Weaving mills, manmade fiber and silk.....1977..	6,325.9	5,360.0	903.1	62.9	86	7,285.0	5,360.0	1,925.0	74
	1972..	3,856.5	3,064.7	739.0	52.8	81	4,114.5	3,064.7	1,049.8	74
	1967..	2,289.6	1,915.5	325.6	48.5	85	2,572.3	1,915.5	656.8	74
2231	Weaving and finishing mills, wool.....1977..	583.3	467.3	94.9	21.1	83	581.3	467.3	114.0	80
	1972..	450.1	364.5	68.4	17.2	84	440.7	364.5	76.2	83
	1967..	1,090.0	864.4	190.8	34.8	82	896.6	864.4	32.2	96
2241	Narrow fabric mills.....1977..	682.9	628.9	26.7	27.3	96	645.0	628.8	16.2	97
	1972..	566.2	505.9	36.2	24.1	93	521.5	505.9	15.6	97
	1967..	445.1	393.7	25.5	25.9	94	411.0	393.7	17.3	96

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Weaving mills, cotton (SIC 2211)	Weaving mills, manmade fiber and silk (SIC 2221)	Weaving and finishing mills, wool (SIC 2231)	Narrow fabric mills (SIC 2241)	Other industries
	Total	(X)	4,431.2	6,325.9	583.3	682.9	(X)
	Primary products	(X)	3,710.7	5,360.0	467.3	628.9	(X)
	Secondary products	(X)	686.0	903.1	94.9	26.7	(X)
	Miscellaneous receipts	(X)	34.5	62.9	21.1	27.3	(X)
2211-	Cotton broad woven fabrics	5,644.9	3,710.7	(D)	(D)	-	1,563.4
22111	Cotton duck and allied fabrics	205.3	179.3	(D)	-	-	(D)
22112	Cotton sheeting and allied gray fabrics	571.1	533.3	(D)	-	-	(D)
22113	Cotton print cloth yarn gray fabrics	344.7	(D)	(D)	-	-	-
22114	Cotton colored yarn gray fabrics	758.6	(D)	(D)	-	-	(D)
22115	Fine cotton gray fabrics	99.1	59.8	(D)	-	-	(D)
22116	Other broad woven cotton gray fabrics and specialties	636.2	531.8	(D)	-	-	(D)
22117 22617	Finished cotton broad woven fabrics	1,192.3	811.3	112.0	(D)	-	(D)
22118 22219 23928	Sheets and pillow cases made from woven fabrics	906.3	-	426.8	-	-	479.5
22119 23920 22210	Towels and washcloths made from woven fabrics	693.0	412.4	(D)	(D)	-	(D)
22110 23926 23990	Other fabricated cotton textile products, n.e.c., including fabrics, n.s.k.	238.2	156.9	(D)	(D)	-	[2]67.6
2221-	Manmade fiber and silk broad woven fabrics	7,285.0	398.2	5,360.0	34.0	-	1,492.8
22211	100-percent filament rayon and/or acetate gray fabrics	265.7	(D)	253.6	-	-	(D)
22212	100-percent filament gray fabrics, except rayon and/or acetate gray fabrics	1,149.5	(D)	1,027.0	(D)	-	119.0
22213	100-percent spun rayon and/or acetate gray fabric	184.3	(D)	157.0	-	-	(D)
22214	100-percent spun polyester/cotton gray fabrics	1,664.1	(D)	1,534.1	-	-	(D)
22215	All other 100-percent spun noncellulosic gray fabrics	404.0	25.9	353.6	(D)	-	(D)
22216	Combinations of filament spun yarn fabrics	461.5	(D)	421.0	(D)	-	(D)
22217	Blanketing and other specialty gray fabrics	171.7	(D)	158.4	(D)	-	(D)
22218 22628	Finished manmade fiber and silk broad woven fabrics	2,430.5	(D)	1,037.6	(D)	-	[3]1,312.7
22219	Manmade fiber and silk sheets and pillowcases	426.8	(D)	305.2	-	-	(D)
22210	Other fabricated manmade fiber textile products, n.s.k.	126.9	(Z)	112.6	(D)	-	(D)
2231-	Broad woven wool fabrics	581.3	-	68.4	467.3	-	45.6
22311	Finished wool yarn, tops, or raw stock	39.5	-	(D)	(D)	-	(D)
22312	Broad woven wool gray fabrics	97.3	-	(D)	60.5	-	(D)
22313	Broad woven wool apparel finished fabrics	299.3	-	(D)	257.9	-	(D)
22314	Broad woven wool nonapparel finished fabrics and felts	83.2	-	(D)	79.7	-	(D)
22315	Commission finishing or sponging of broad woven fabrics	26.8	-	(D)	26.2	-	(D)
22319	Wool and chiefly broad woven wool blankets	9.2	-	(D)	(D)	-	-
22310	Broad woven wool fabrics and finished products, n.s.k.	26.0	-	-	25.2	-	.8
2241-	Narrow fabrics	645.0	(D)	(D)	-	628.9	8.3
22411	Woven narrow fabrics	413.5	-	(D)	-	400.2	(D)
22414	Braided narrow fabrics	133.4	-	-	-	131.8	1.6
22415	Covered rubber thread	56.1	-	-	-	56.1	-
22410	Narrow fabrics, n.s.k.	42.1	(D)	-	-	40.8	(D)
	Other shipments by 4-digit product group:						
2257-	Circular knit fabric mills	(X)	(D)	57.6	(D)	2.5	(X)
2258-	Warp knit fabric mills	(X)	(D)	13.6	(D)	8.4	(X)
2261-	Finished cotton broad woven fabrics	(X)	(D)	4.4	(D)	-	(X)
2262-	Finished manmade fiber and silk broad woven fabrics	(X)	(D)	33.6	(D)	-	(X)
2269-	Finished textiles, n.e.c.	(X)	-	-	(D)	3.8	(X)
2281-	Yarn, except wool	(X)	(D)	(D)	(D)	-	(X)
2282-	Textured, thrown, and rewound yarn	(X)	(D)	28.2	(D)	-	(X)
2283-	Wool yarn	(X)	-	(D)	(D)	-	(X)
2284-	Thread	(X)	-	(D)	-	(D)	(X)
2296-	Tire cord and fabric	(X)	(D)	(D)	-	-	(X)
2297-	Nonwoven fabrics	(X)	-	(D)	(D)	-	(X)
2299-	Textile goods, n.e.c.	(X)	(D)	(D)	(D)	-	(X)
2329-	Men's and boys' clothing, n.e.c.	(X)	-	-	(D)	-	(X)
2393-	Textile bags	(X)	-	-	(D)	-	(X)
2399-	Fabricated textile products, n.e.c.	(X)	-	-	(D)	-	(X)
3079-	Miscellaneous plastics products	(X)	-	(D)	-	(D)	(X)
3496-	Miscellaneous fabricated wire products	(X)	-	-	-	(D)	(X)
3842-	Surgical appliances and supplies	(X)	-	-	-	(D)	(X)

See footnotes at end of table.

Table 5c. **Industry-Product Analysis — Shipments by Product Class and Industry: 1977** — Con.

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Weaving mills, cotton (SIC 2211)	Weaving mills, manmade fiber and silk (SIC 2221)	Weaving and finishing mills, wool (SIC 2231)	Narrow fabric mills (SIC 2241)	Other industries
	Miscellaneous receipts:						
93000 00	Contract work	(X)	22.5	28.5	10.5	(D)	(X)
99980 98	Other miscellaneous receipts	(X)	8.5	14.9	1.2	(D)	(X)
99989 00	Resales	(X)	3.6	19.5	9.4	22.0	(X)

1977 product code	Industry and miscellaneous receipts	Other industries	1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:			Other industries with over $5 million shipments of primary products--Con.	
2211-	2297 Nonwoven fabrics	(D)	2221-	2291 Felt goods, except woven felts and hats	(D)
	3041 Rubber and plastic hose and felting	(D)		2296 Tire cord and fabric	(D)
				3842 Surgical appliances and supplies	(D)
2221-	2258 Warp knit fabric mills	(D)			
	2281 Yarn mills, except wool	(D)	2231-	2262 Finishing plants, manmade fiber and silk	(D)
	2282 Throwing and winding mills	(D)		2281 Yarn mills, except wool	8.4

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1] Includes $264.2 million from product class 22617.

[2] Includes $65.7 million from product classes 23926 and 23990.

[3] Includes $1,303.5 million from product class 22628.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977					1972			
			Number of companies with shipments of $100,000 or more	Product shipments including interplant transfers[1]		Interplant transfers[1]		Product shipments including interplant transfers		Interplant transfers	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)
	COTTON BROAD WOVEN FABRICS										
2211- -- 2261 pt. 2392 pt. 2399 pt.	Total	.....	(NA)	(X)	5,644.9	(X)	(X)	(X)	3,673.2	(X)	(X)
	Gray goods, finished goods, and selected fabricated products:										
	Gray goods:[2]										
22111 00	Cotton duck and allied fabrics, including combed duck	Mil. lin. yd.	24	206.9	205.4	19.3	20.1	159.8	122.1	4.8	4.6
22112 00	Cotton sheeting and allied coarse and medium yarn fabrics		36	708.7	571.1	183.4	174.0	1,388.5	531.6	251.1	71.7
22113 00	Cotton print cloth yarn fabrics		18	1,131.3	344.7	338.7	105.9	2,069.7	299.3	593.0	69.0
22114 --	Cotton colored yarn fabrics, toweling and dishcloth fabrics, and napped cotton fabrics, including blanketing		(NA)	616.5	758.6	(X)	(X)	(X)	274.5	(X)	(X)
22114 10	Carded colored yarn fabrics		8	244.1	337.4	102.4	91.0	235.8	170.7	44.8	27.4
22114 30	Toweling, washcloth, and dishcloth fabrics		13	286.3	326.8	200.2	245.4	182.5	65.4	154.1	49.9
22114 50	Blanketing and other napped fabrics		7	86.1	94.4	(D)	(D)	89.2	38.4	21.2	7.2
22115 00	Fine cotton fabrics		12	128.3	99.1	43.0	27.3	147.9	73.2	39.1	18.3
22116 00	Other woven cotton gray fabrics and specialties	Mil. lin. yd.	37	489.7	636.2	241.4	307.5	443.4	329.7	119.9	91.8
22117 -- 22617 --	Finished cotton broad woven fabrics, excluding commission finishing[3]	Mil. finished linear yard.	(NA)	[4]1,532.3	1,192.3	(X)	(X)	[4]1,579.4	708.8	119.4	69.0
22117 --	Finished in weaving mills		(NA)	[4]766.2	928.1	(X)	(X)	[4]767.4	445.4	51.7	17.3
22617 --	Finished in other industries		(NA)	[4]766.0	264.2	(X)	(X)	[4]812.0	263.4	67.7	51.7
22117 11 22617 11	Bleached and white finished		23	688.6	243.9	(D)	(D)	770.9	154.2	35.8	10.1
22117 31 22617 31	Plain dyed and finished		33	603.8	778.3	(D)	(D)	516.7	371.8	24.3	18.5
22117 51 22617 51	Printed and finished		16	43.7	37.9	-	-	156.5	78.9	(D)	(D)
22117 61 22617 61	Other finished cotton fabrics (flame-proofed, mildew-proofed, mercerized, embossed, etc.) not bleached, dyed or printed at same establishments	Mil. finished linear yard.	8	89.8	129.0	(D)	(D)	135.3	89.3	(D)	(D)
22117 00 22617 00	Finished cotton broad woven fabrics, n.s.k.	.....	(NA)	(X)	3.2	(X)	(X)	(X)	17.1	(X)	(X)

1977 product code	Product	Unit of measure	1977				1972		
			Number of companies with shipments or $100,000 or more	Quantity of production for all purposes	Product shipments[1]		Quantity of production for all purposes	Product shipments	
					Quantity	Value (million dollars)		Quantity	Value (million dollars)
	Sheets and pillowcases made from woven fabrics:								
	As reported in census of manufactures	.....	(NA)	(X)	(X)	906.3	X	(X)	634.8
	Made in weaving mills:								
22118 00	Chiefly cotton	.....	-	(X)	(X)	-	(X)	X	77.8
22219 00	Chiefly manmade fiber	.....	9	(X)	X	426.8	(X)	(X)	238.5
23928 00	Made from purchased fabrics	.....	26	(X)	(X)	479.5	(X)	X	318.5
	As reported in Current Industrial Reports MQ-23X, Sheets, Pillowcases, and Towels:								
	Sheets and pillowcases	Mil. dozen	(NA)	30.9	31.2	878.6	32.7	32.0	633.8
23928 04	Crib size sheets		(NA)	.6	.7	13.0	1.0	.9	9.6
	Other sheets	Mil. dozen	(NA)	16.3	16.6	661.0	17.6	17.3	504.2

See footnotes at end of table.

Table 6a. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977				1972		
			Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Product shipments[1]		Quantity of production for all purposes	Product shipments	
					Quantity	Value (million dollars)		Quantity	Value (million dollars)
2211- - 2261 pt. 2392 pt. 2399 pt.	COTTON BROAD WOVEN FABRICS--Con.								
	Sheets and pillowcases made from woven fabrics--Con.								
	As reported in Current Industrial Reports MQ-23X, Sheets, Pillowcases, and Towels--Con.								
	Sheets and pillowcases--Con.								
	By type:								
	Flat sheets	Million dozen.	(NA)	9.7	9.8	392.9	10.4	10.1	291.0
23928 03	Cotton fabrics, including blends, chiefly cotton		(NA)	(D)	(D)	(D)	(NA)	(NA)	(NA)
	Polyester/cotton blends:								
23928 07	Less than 180 count		(NA)	5.2	5.5	186.9	(NA)	(NA)	(NA)
23928 10	180 count and greater		(NA)	4.4	4.2	198.1	(NA)	(NA)	(NA)
23928 11	All other fabrics		(NA)	.2	.2	7.9	(NA)	(NA)	(NA)
	Fitted sheets		(NA)	6.6	6.8	268.1	7.2	7.2	213.2
23928 20	Cotton fabrics, including blends, chiefly cotton		(NA)	(D)	(D)	(D)	.8	.9	18.3
	Polyester/cotton blends:								
23928 24	Less than 180 count		(NA)	3.5	3.8	127.4	(NA)	(NA)	(NA)
23928 28	180 count and greater		(NA)	3.0	2.9	135.6	(NA)	(NA)	(NA)
23928 30	All other fabrics		(NA)	.1	.1	5.2	-	-	-
	By size:								
23928 52	King size		(NA)	(X)	1.1	75.8	(X)	(X)	(X)
23928 53	Queen size		(NA)	(X)	1.9	105.6	(X)	(X)	(X)
23928 55	Full size		(NA)	(X)	6.8	263.9	(X)	(X)	(X)
23928 57	Twin size		(NA)	(X)	6.5	205.1	(X)	(X)	(X)
23928 59	Single and smaller		(NA)	(X)	.4	10.7	(X)	(X)	(X)
23928 60	Sheets (except crib) shipped for export		(NA)	(X)	1.4	49.0	(X)	(X)	(X)
	Pillowcases		(NA)	14.0	13.9	185.2	14.1	13.8	120.0
23928 71	Cotton fabrics, including blends, chiefly cotton		(NA)	(D)	(D)	(D)	(NA)	(NA)	(NA)
	Polyester/cotton blends:								
23928 73	Less than 180 count		(NA)	7.3	7.4	84.9	(NA)	(NA)	(NA)
23928 75	180 count and greater		(NA)	6.3	6.2	95.7	(NA)	(NA)	(NA)
23928 77	All other fabrics		(NA)	.3	.3	4.5	(NA)	(NA)	(NA)
23928 80	Sheets and pillowcases, n.s.k.	Million dozen.	(NA)	(X)	(X)	19.4	(NA)	(NA)	(NA)
	Towels and washcloths made from woven fabrics:								
	As reported in census of manufactures	.....	(NA)	(X)	(X)	693.0	(X)	(X)	403.0
	Made in weaving mills:								
22119 00	Chiefly cotton	.....	(NA)	(X)	(X)	416.4	(X)	(X)	319.0
22210 15	Chiefly manmade fiber	.....							
23929 00	Made from purchased fabric	.....	(NA)	(X)	(X)	276.6	(X)	(X)	84.0
	As reported in Current Industrial Reports MQ-23X, Sheets, Pillowcases, and Towels	Million dozen.	(NA)	140.5	142.0	698.4	(NA)	(NA)	391.3
	Finished terry woven towels		(NA)	46.3	47.1	576.2	47.7	48.9	312.2
	By type:								
23929 12	Sheared		(NA)	15.3	15.5	238.0			
23929 13	Nonsheared		(NA)	31.0	31.5	338.3			
	By end use:								
23929 14	Kitchen		(NA)	4.7	5.1	23.0			
23929 15	Bath size		(NA)	21.2	21.5	355.1			
23929 16	Hand, face, guest, and fingertip		(NA)	17.4	17.8	149.1	47.7	48.9	312.2
23929 17	All other types, including larger than bath (e.g., queen/king bath towels, bath sheets, beach towels, and bath mats)		(NA)	2.9	2.6	49.0			
23929 24	Huck and crash towels		(NA)	70.1	70.4	29.2	(NA)	(NA)	29.0
23929 53	Terry washcloths	Million dozen.	(NA)	24.1	24.5	93.0	30.4	30.6	50.1
22110 -- 23926 pt. 23990 pt.	Other fabricated cotton textile products made in weaving mills, including fabrics, n.s.k.	.....	(NA)	(NA)	(X)	238.2	(X)	(X)	239.0
22110 37 23990 26	Diapers, excluding disposable	Million dozen.	5	(NA)	(X)	16.4	(X)	16.5	33.5

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977				1972	
			Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Product shipments[1] Quantity	Product shipments[1] Value (million dollars)	Quantity of production for all purposes	Product shipments Quantity	Product shipments Value (million dollars)
2211- -- 2261 pt. 2392 pt. 2399 pt.	COTTON BROAD WOVEN FABRICS--Con.								
	Cotton jacquard woven bedspreads and bedsets:								
22110 41	Made in cotton weaving mills.....	Millions.....	4	(NA)	(D)	(D)	(X)	3.7	24.0
23926 51	Made in other industries.....		3	(NA)	(D)	(D)	(X)	3.7	22.7
	Other than jacquard woven quilted or tufted cotton bedspreads and bedsets:								
22110 45	Made in cotton weaving mills.....		5	(NA)	5,400.7	68.8	(NA)	(NA)	(NA)
23926 77	Made in other industries.....	Millions.....	13	(NA)	4.3	40.1	(NA)	(NA)	(NA)
22110 57	Cotton bed and camp blankets, motor robes, etc.....	Million dozen.	3	(NA)	(D)	(D)	(X)	.7	13.5
22110 98	Other fabricated textile products, n.e.c.....	.....	-	(NA)	(X)	-	(X)	(X)	7.1
22110 00	Cotton broad woven fabrics, finished cotton fabrics, etc., n.s.k., typically for establishments with 5 employees or more see note.....	.....	(NA)	(NA)	(X)	44.3	(X)	(X)	50.8
22110 02	Cotton broad woven fabrics, finished cotton fabrics, etc., n.s.k., typically for establishments with less than 5 employees see note.....	.....	(NA)	(NA)	(X)	19.9	(X)	(X)	6.4

1977 product code	Product	Unit of measure	1977					1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1] Quantity	Product shipments[1] Value (million dollars)	Interplant transfers Quantity	Interplant transfers Value (million dollars)	Product shipments Quantity	Product shipments Value (million dollars)
	MANMADE FIBER AND SILK BROAD WOVEN FABRICS								
2221- -- 22628 --	Total.....	.....	NA)	X)	7,285.0	X)	X)	(X)	4,114.5
	Gray goods, finished goods, and fabricated products:								
	Gray goods:[2] [4]								
22211 00	100 percent filament rayon and/or acetate fabrics, including combinations chiefly rayon and/or acetate.....	Mil. lin. yd..	32	534.8	265.7	D)	D)	567.7	261.5
22212 00	100 percent filament fabrics, except rayon and/or acetate...		58	1,750.9	1,149.5	317.1	256.4	1,126.0	514.3
22213 00	100 percent spun rayon and/or acetate fabrics, including blends.....		23	340.1	184.3	26.6	19.4	488.8	183.0
22214 00	100 percent spun polyester blends with cotton fabrics....		33	2,096.0	1,664.1	990.4	850.5	2,101.4	1,004.6
22215 00	All other 100 percent spun noncellulosic fabrics.....		38	424.9	404.0	101.9	106.9	461.6	267.7
22216 00	Combinations of filament and spun yarn fabrics, chiefly manmade fiber.....		44	496.3	461.5	93.0	82.6	507.5	279.3
22217 00	Blanketing, silk, paper, and other specialty manmade fiber fabrics, except nonwoven.....		20	186.7	171.7	D)	(D)	130.3	101.8
22218 -- 22628 --	Finished manmade fiber and silk broad woven goods, excluding commission finishing[3].....		NA)	[5]2,047.4	2,430.5	X)	(X)	[5]1,466.9	1,175.5
22218 --	Finished in manmade fiber weaving mills.....		NA)	[5]733.9	1,127.0	X)	X)	[5]517.8	581.0
22628 --	Finished in other industries.		NA)	[5]1,313.5	1,303.5	(X)	(X)	[5]949.1	594.5
22218 10 22628 20	Bleached and white finished....		16	783.2	714.1	D)	(D)	396.5	219.2
22218 30 22628 30	Plain dyed and finished.....		38	868.4	1,129.3	17.4	23.2	827.6	676.0
22218 50 22628 50	Printed and finished.....	Mil. lin. yd..	21	160.3	173.9	D)	(D)	94.2	109.1

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977					1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Interplant transfers		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)
2221- -- 22628 --	MANMADE FIBER AND SILK BROAD WOVEN FABRICS--Con.								
22218 -- 22628 -- 22218 61 22628 61	Finished manmade fiber and silk broad woven goods, excluding commission finishing[3]--Con. Other finished manmade fiber and silk fabrics (flame-proofed, mildewproofed, mercerized, embossed, etc.) not bleached, dyed, or printed in same establishment	Mil. lin. yd..	27	235.5	408.7	42.1	52.6	148.6	157.1
22628 00 22218 00	Finished manmade fiber and silk fabrics, excluding commission finishing, n.s.k.	.....	(NA)	(X)	4.5	(X)	(X)	(X)	14.1
22219 --	Sheets and pillowcases of manmade fiber and silk:								
22219 00	Sheets and pillowcases of manmade fiber and silk	.....	9	(X)	426.8	(X)	(X)	(X)	280.1
22210 --	Other fabricated manmade fiber textile products made in weaving mills, including fabrics, n.s.k.	.....	(NA)	(X)	126.9	(X)	(X)	(NA)	88.3
22210 15	Towels and washcloths of manmade fiber	.....	1	(X)	(D)	(X)	(X)	(X)	(X)
22210 17	Woven bed and camp blankets, motor robes, etc. made from manmade fiber or silk	Million dozen.	7	(D)	(D)	(X)	(X)	1.6	41.6
22210 00	Other fabricated manmade fiber textile products, including fabrics, n.s.k., typically for establishments with 5 employees or more	.....	(NA)	(X)	51.0	(X)	(X)	(X)	43.0
22210 02	Other fabricated manmade fiber textile products, including fabrics, n.s.k., typically for establishments with less than 5 employees	.....	(NA)	(X)	18.7	(X)	(X)	(X)	3.7

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[6]	Value (million dollars)	Quantity	Value (million dollars)
	WEAVING AND FINISHING MILLS, WOOL						
2231- --	Total	.....	(NA)	(X)	581.3	(X)	440.7
22311 --	Finished wool yarn, tops, or raw stock, not combed or spun at same establishment:						
22311 11	Finished wool yarn, tops, raw stock, etc., not combed or spun at same establishment	Million lb....	18	20.8	39.5	43.9	61.5
22312 --	Wool fabrics (gray goods):						
22312 00	Wool broadwoven fabrics (gray goods)	Mil. lin. yd..	17	22.4	97.3	14.2	31.4
22313 --	Finished wool apparel fabrics:						
22313 15	Finished wool apparel fabrics	Mil. fin. lin. yard.	23	74.3	299.3	85.6	213.5
22314 --	Finished wool nonapparel fabrics and felts:						
22314 15	Finished wool nonapparel fabrics and felts	Mil. fin. lin. yard.	16	9.3	83.2	13.0	80.1
22315 --	Receipts for commission finishing or sponging of wool fabrics.	.....	(NA)	(X)	26.8	(X)	26.7
22315 91	Contract receipts for shrinking, sponging, mending, etc., of wool cloth owned by others	.....	10	(X)	4.5	(X)	8.7
22315 92	Contract receipts for job or commission finishing of wool broad woven fabrics	Mil. fin. lin. yard.	7	(S)	17.1	7.1	8.0

See footnotes at end of table.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[r]	Value (million dollars)	Quantity	Value (million dollars)
2231- --	WEAVING AND FINISHING MILLS, WOOL--Con.						
22315 93	Contract receipts for finishing wool textile, except broad woven fabrics	.....	3	(X)	1.1	(X)	5.1
22315 00	Receipts for commission finishing of wool textiles, n.s.k., typically for establishments with 5 employees or more	.....	(NA)	(X)	.4	(X)	4.9
22315 02	Receipts for commission finishing of wool textiles, n.s.k., typically for establishments with less than 5 employees	.....	(NA)	(X)	3.7	(X)	(X)
22319 --	Wool and chiefly wool blankets:						
22319 23	Bed and camp blankets, motor robes, etc., wholly or chiefly wool	Mil. doz.	9	*.1	9.2	.2	13.0
22310 00	Wool broad woven fabrics, finished wool fabrics, etc., n.s.k., typically for establishments with 20 employees or more (see note)	.....	(NA)	(X)	16.6	(X)	8.3
22310 02	Wool broad woven fabrics, finished wool fabrics, etc., n.s.k., typically for establishments with less than 20 employees (see note)	.....	(NA)	(X)	9.4	(X)	6.2
	NARROW FABRIC MILLS						
2241- --	Total	.....	(NA)	(X)	645.0	(X)	521.5
22411 --	Woven narrow fabrics:						
	As reported in the census of manufactures	.....	(NA)	(X)	413.5	(X)	355.2
22411 01	Woven elastic narrow fabrics	.....	39	(X)	143.7	(X)	355.2
22411 31	Woven nonelastic narrow fabrics	.....	72	(X)	266.2		
22411 00	Woven narrow fabrics, n.s.k	.....	(NA)	(X)	3.6	(X)	-
	As reported in Current Industrial Reports MA-22G, Narrow Fabrics	.....	(NA)	(X)	413.5	(X)	317.9
	Woven elastic narrow fabrics	Mil. lin. yd..	(NA)	(NA)	140.6	1,634.7	116.8
	Corset and allied lines:						
22411 02	3/4 inches and under		(NA)	279.5	26.1	479.2	30.9
22411 03	Over 3/4 inches to 1-1/2 inches		(NA)	38.1	4.3	120.3	10.9
22411 04	Over 1-1/2 inches to 3 inches		(NA)	11.9	4.4	25.5	6.0
22411 05	Over 3 inches to 6 inches		(NA)	(D)	(D)	5.8	2.9
22411 06	Over 6 inches to 12 inches		(NA)	(D)	(D)		
22411 12	Underwear		(NA)	571.4	40.6	609.9	31.5
22411 21	Other apparel		(NA)	270.7	28.1	249.3	19.6
22411 23	Other uses	Mil. lin. yd..	(NA)	169.5	19.8	144.7	15.1
22411 10	Woven elastic narrow fabrics, n.s.k	.....	(NA)	(X)	16.4	(X)	-
	Woven nonelastic narrow fabrics	.....	(NA)	(X)	272.9	(X)	201.1
	Woven edge ribbons:						
22411 83	Packaged for over-the-counter sale	Mil. lin. yd..	(NA)	471.7	25.4	97.8	7.0
22411 85	All other woven edge ribbons	Mil. lin. yd..	(NA)			368.9	8.1
22411 71	Woven labels	Mil. labels...	(NA)	2,588.5	33.6	3,250.5	35.7
	Tapes (weight less than 15 ounces per square yard):						
22411 51	Zipper tape	Mil. lin. yd..	(NA)	850.5	25.9	1,086.5	20.0
22411 52	Apparel tape, except zipper tape		(NA)	661.5	21.1	855.2	15.9
22411 54	Household articles tape		(NA)	361.5	10.0	335.4	5.0
22411 56	All other tape		(NA)	998.7	25.4	1,116.3	20.4
	Webbing (weight 15 ounces or more per square yard):						
22411 33	Apparel webbing		(NA)	73.2	6.5	55.4	4.2
22411 35	Household articles webbing		(NA)	133.6	4.9	221.1	6.4
22411 37	Safety belt webbing		(NA)	146.7	32.9	129.9	24.2
22411 39	All other webbing	Mil. lin. yd..	(NA)	225.1	37.4	214.1	27.8
22411 98	All other woven nonelastic fabrics	.....	(NA)	(X)	47.7	(X)	26.5
22411 20	Woven nonelastic narrow fabrics, n.s.k	.....	(NA)	(X)	2.1	(X)	-
22414 --	Braided narrow fabrics:						
22414 00	As reported in the census of manufactures	.....	45	(X)	133.4	(X)	103.8
	As reported in Current Industrial Reports MA-22G, Narrow Fabrics	.....	(NA)	(X)	130.0	(X)	95.0
22414 11	Elastic braids	Mil. lin. yd..	(NA)	1,223.8	35.0	1,793.1	33.9
	Nonelastic braids:						
22414 21	Shoe and corset laces	Million lb....	(NA)	9.1	28.5	8.9	21.7
22414 31	Other nonelastic braids	.....	(NA)	(X)	58.8	(X)	39.5
22414 00	Braided narrow fabrics, n.s.k	.....	(NA)	(X)	7.7	-	-
22415 --	Covered rubber thread:						
22415 11	Covered rubber thread	Million lb....	14	20.6	56.1	9.2	40.0
22410 00	Narrow fabrics, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	20.7	(X)	15.2
22410 02	Narrow fabrics, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	21.3	(X)	7.3

Footnotes are on next page.

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]Production data for gray goods with a detailed breakdown by type of fabric are collected on a quarterly basis and published in Current Industrial Reports MQ-22T, Broad Woven Fabrics (Gray).

[3]Production data for finished fabrics are published in Current Industrial Reports MA-22S, Finished Broad Woven Fabric Production.

[4]Excludes Finished fabrics, n.s.k.

[5]Excludes fabrics and commission finishing, n.s.k.

[6]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
22111, COTTON DUCK AND ALLIED FABRICS		
United States	205.3	122.1
South Atlantic Division:		
South Carolina	59.0	FF
Georgia	33.0	35.8
East South Central Division:		
Alabama	95.4	49.2
22112, COTTON SHEETING AND ALLIED GRAY FABRICS		
United States	571.1	531.6
South Atlantic Division:		
North Carolina	11.1	FF
South Carolina	163.4	212.5
Georgia	230.1	165.9
East South Central Division:		
Alabama	135.1	GG
22113, COTTON PRINT CLOTH YARN GRAY FABRICS		
United States	344.7	299.3
South Atlantic Division:		
South Carolina	236.4	211.5
East South Central Division:		
Alabama	30.1	FF
22114, COTTON COLORED YARN GRAY FABRICS		
United States	758.7	274.5
South Atlantic Division:		
South Carolina	148.2	54.9
Georgia	160.4	97.6
East South Central Division:		
Alabama	88.1	FF
22115, FINE COTTON GRAY FABRICS		
United States	99.1	73.2
South Atlantic Division:		
South Carolina	33.9	39.4
Georgia	59.4	5.5
22116, OTHER BROAD WOVEN COTTON GRAY FABRICS AND SPECIALTIES		
United States	636.2	329.7
Middle Atlantic Division:		
New Jersey	3.8	4.1
South Atlantic Division:		
North Carolina	297.7	117.8
South Carolina	193.9	115.2
Georgia	83.0	FF
22117, FINISHED COTTON BROAD WOVEN FABRICS		
United States	928.1	445.5
New England Division:		
Massachusetts	10.8	(NA)
South Atlantic Division:		
North Carolina	439.8	198.7
South Carolina	50.3	FF
Georgia	272.8	120.9
22211, 100-PERCENT FILAMENT RAYON AND/OR ACETATE GRAY FABRICS		
United States	265.7	261.5
New England Division:		
Massachusetts	17.4	CC
22211, 100-PERCENT FILAMENT RAYON AND/OR ACETATE GRAY FABRICS--Con.		
Middle Atlantic Division:		
Pennsylvania	46.0	42.3
South Atlantic Division:		
Virginia	69.0	62.0
North Carolina	51.8	63.2
South Carolina	31.4	29.6
Georgia	33.0	EE
22212, 100-PERCENT FILAMENT GRAY FABRICS, EXCEPT RAYON AND/OR ACETATE GRAY FABRICS		
United States	1,149.5	514.3
New England Division:		
Massachusetts	11.9	BB
Middle Atlantic Division:		
Pennsylvania	11.0	25.6
South Atlantic Division:		
Virginia	115.3	GG
North Carolina	286.1	93.7
South Carolina	383.9	124.1
Georgia	208.9	98.8
22213, 100-PERCENT SPUN RAYON AND/OR ACETATE GRAY FABRICS		
United States	184.3	183.0
South Atlantic Division:		
North Carolina	31.5	64.9
South Carolina	75.4	GG
Georgia	19.2	FF
East South Central Division:		
Alabama	28.5	32.4
22214, 100-PERCENT SPUN POLYESTER/COTTON GRAY FABRICS		
United States	1,664.1	1,004.6
South Atlantic Division:		
North Carolina	325.8	187.9
South Carolina	1,013.3	581.1
Georgia	123.1	GG
East South Central Division:		
Alabama	149.8	75.5
22215, ALL OTHER 100-PERCENT SPUN NONCELLULOSIC GRAY FABRICS		
United States	404.0	267.7
New England Division:		
New Hampshire	9.6	BB
Middle Atlantic Division:		
Pennsylvania	13.5	BB
South Atlantic Division:		
North Carolina	110.1	72.6
South Carolina	153.3	135.9
Georgia	69.5	FF
22216, COMBINATIONS OF FILAMENT AND SPUN YARN FABRICS		
United States	461.5	279.3
Middle Atlantic Division:		
Pennsylvania	49.0	25.1
South Atlantic Division:		
Virginia	34.1	15.7
North Carolina	156.5	120.2
South Carolina	102.2	67.2
Georgia	28.6	CC

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** — Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
22217, BLANKETING AND OTHER SPECIALTY GRAY FABRICS		
United States	171.7	101.8
South Atlantic Division:		
North Carolina	98.1	41.8
South Carolina	35.7	CC
22218, FINISHED MANMADE FIBER AND SILK BROAD WOVEN FABRICS		
United States	1,127.0	581.0
Middle Atlantic Division:		
New Jersey	5.4	CC
Pennsylvania	18.8	29.5
South Atlantic Division:		
North Carolina	338.3	232.1
South Carolina	200.8	55.1
Georgia	170.2	GG
22312, WOOL BROAD WOVEN WOOL GRAY FABRICS		
United States	97.3	31.4
South Atlantic Division:		
North Carolina	18.5	CC
22313, BROAD WOVEN WOOL APPAREL FINISHED FABRICS		
United States	229.3	213.5
New England Division:		
Maine	92.3	58.7
Massachusetts	31.9	28.6
22314, BROAD WOVEN WOOL NONAPPAREL FINISHED FABRICS AND FELTS		
United States	83.2	80.1
Middle Atlantic Division:		
New York	20.0	21.5
22315, COMMISSION FINISHING OR SPONGING OF BROAD WOVEN FABRICS		
United States	26.8	26.7
New England Division:		
Massachusetts	2.1	2.3
22315, COMMISSION FINISHING OR SPONGING OF BROAD WOVEN FABRICS--Con.		
Middle Atlantic Division:		
Pennsylvania	3.7	4.3
22411, WOVEN NARROW FABRICS		
United States	413.5	355.2
New England Division:		
New Hampshire	25.5	15.8
Massachusetts	16.4	14.6
Rhode Island	56.8	49.6
Connecticut	5.2	CC
Middle Atlantic Division:		
New York	35.5	25.1
New Jersey	11.1	12.3
Pennsylvania	39.0	45.5
South Atlantic Division:		
North Carolina	47.6	46.6
South Carolina	65.9	38.2
Georgia	10.5	CC
East South Central Division:		
Alabama	24.0	20.2
22414, BRAIDED NARROW FABRICS		
United States	133.4	103.8
New England Division:		
Massachusetts	12.3	9.7
Rhode Island	44.2	34.4
Connecticut	2.2	AA
Middle Atlantic Division:		
New York	3.0	5.8
Pennsylvania	14.5	16.3
South Atlantic Division:		
North Carolina	14.4	9.5
22415, COVERED RUBBER THREAD		
United States	56.1	40.0
South Atlantic Division:		
North Carolina	47.3	FF

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available.

Table 6c. **Product Classes — Value Shipped by All Producers: 1963, 1967, and 1972 to 1977**

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2211-	Cotton broad woven fabrics[2]	5,218.1	4,560.0	3,655.4	3,768.2	3,407.4	3,418.6	3,536.4	3,396.8
	Gray goods:								
22111	Cotton duck and allied fabrics	205.3	144.3	122.5	177.1	128.1	122.1	202.2	124.1
22112	Cotton sheeting and allied fabrics	571.1	597.8	460.3	533.8	546.5	531.6	655.7	619.4
22113	Cotton print cloth yarn fabrics	344.7	337.5	286.5	411.6	305.3	299.3	376.7	419.0
22114	Cotton colored yarn fabrics	758.7	513.4	433.5	396.7	307.2	274.5	169.9	207.2
22115	Fine cotton fabrics	99.1	81.9	57.3	64.6	52.4	73.2	330.1	474.3
22116	Other broad woven cotton fabrics and specialities	636.2	404.8	295.3	281.8	317.3	329.7	243.5	181.0
	Finished cotton broad woven fabrics:								
22117	Made in weaving mills	928.1	899.9	657.7	621.5	490.0	445.4	375.7	411.7
22617	Not made in weaving mills	264.2	267.7	236.3	261.6	311.0	263.4	309.6	312.4
	Fabricated cotton textile products, including cotton sheets and pillowcases:								
22118	Made in weaving mills, cotton	-	-	-	4.1	62.9	77.8	268.4	328.8
23928	Not made in weaving mills	479.5	471.0	416.5	403.1	356.0	318.5	170.1	
	Cotton towels and washcloths:								
22119	Made in weaving mills	416.4	462.2	395.8	401.5	350.5	319.0	270.9	226.4
23929	Not made in weaving mills	276.6	232.0	172.0	115.7	92.0	84.0	30.1	
22110	Other fabricated cotton textile products made in weaving mills, including fabrics, n.s.k.	238.2	147.5	121.7	95.1	88.2	296.2	133.5	92.6
2221-	Manmade fiber and silk broad woven fabrics[2]	7,285.0	6,706.3	5,271.2	5,533.1	4,790.0	4,114.5	2,501.9	1,664.4
	Gray goods:								
22211	100% filament rayon and/or acetate fabrics	265.7	254.8	210.4	243.0	258.7	261.5	277.8	184.7
22212	100% filament fabrics, excluding rayon and/or acetate	1,149.5	964.8	759.7	752.3	644.7	514.3	292.5	191.3
22213	100% spun rayon and/or acetate fabrics	184.3	161.6	151.0	181.1	197.5	183.0	226.8	94.4
22214	100% spun polyester/cotton fabrics	1,664.1	1,872.7	1,382.8	1,492.1	1,213.9	1,004.6	502.0	40.8
22215	All other 100% spun noncellulosic fabrics	404.0	384.6	323.4	387.4	330.0	267.7	165.4	168.6
22216	Combination of filament and spun yarn fabrics	461.5	371.5	319.5	385.9	348.4	279.3	195.0	122.9
22217	Blanketing and other specialty fabrics	171.7	158.7	129.1	129.6	104.1	101.8	219.1	514.0
	Finished manmade fiber and silk broad woven fabrics:								
22218	Made in weaving mills	1,127.0	923.9	652.3	682.0	643.8	581.0	413.1	270.4
22628	Not made in weaving mills	1,303.5	1,100.3	908.0	881.6	659.3	594.5	178.0	66.5
	Fabricated manmade fiber and silk textile products:								
	Sheets and pillowcases:								
23929	Not made in weaving mills	(4)	(4)	(4)	(4)	(4)	(4)	(NA)	(NA)
22219	Made in weaving mills	[3]426.8	500.0	433.3	385.6	347.3	280.1	(NA)	(NA)
22210	Other fabricated manmade fiber and silk textile products made in weaving mills, including fabrics, n.s.k.	126.9	(13.4)	(1.7)	(12.5)	42.3	46.7	29.5	10.8
2231-	Wool broad woven fabrics	581.3	515.2	374.9	424.6	476.3	440.7	896.6	880.0
22311	Finished wool yarn, tops, or raw stock	39.5	(41.1)	(29.1)	34.8	51.7	61.5	65.7	63.7
22312	Wool broad woven fabrics, gray goods	97.3	39.9	(20.6)	18.8	30.0	31.4	137.3	129.9
22313	Finished wool apparel fabrics	299.3	312.8	224.4	238.3	268.2	213.5	533.6	547.5
22314	Finished wool nonapparel fabrics and felts	83.2	96.9	77.1	90.3	83.5	80.1	68.9	66.1
22315	Commission finishing or sponging of wool fabrics	26.8	(25.6)	(24.6)	(16.9)	23.2	26.7	44.8	45.3
22319	Wool and chiefly wool blankets	9.2	13.3	13.9	14.7	12.7	13.0	17.5	16.9
22310	Wool woven and finished products, n.s.k.	26.0	(1)	(1)	(10.8)	(7.0)	14.5	28.8	10.6
2241-	Narrow fabric mills	645.0	578.0	476.1	546.9	576.7	521.5	411.0	303.2
22411	Woven narrow fabrics	413.5	372.6	314.2	358.7	388.4	355.2	292.0	211.1
22414	Braided narrow fabrics	133.4	123.5	98.2	109.9	114.9	103.8	71.9	59.8
22415	Covered rubber thread	56.1	58.5	42.6	57.3	50.7	40.0	35.6	26.9
22410	Narrow fabrics, n.s.k.	42.0	(23.4)	(21.1)	(21.0)	22.7	22.5	11.5	5.4

- Represents zero. (NA) Not available. n.s.k. Not specified by kind.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]Value of shipments for this 4-digit group contains extensive duplication. Such duplication arises where products of some establishments are used as materials by other establishments classified in the same industry.

[3]1977 data for product class 22219 not comparable with data for prior years due to exclusion of bed and camp blankets, motor robes, etc.

[4]Included with data for Industry 2211, Cotton Sheets and Pillowcases.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials).

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2211, WEAVING MILLS, COTTON					
	Materials, containers, and supplies		(X)	2,344.4	(X)	1,268.0
013101	Raw cotton	1,000 bales	3,325.0	1,163.5	4,082.1	662.5
282305	Rayon and acetate staple and tow	Million lb	28.3	16.5	76.7	25.5
282425	Polyester staple and tow		271.7	152.7	109.3	38.7
282413	Nylon staple and tow		19.6	15.3	14.4	7.8
282428	All other manmade fiber staple and tow, except glass		13.7	8.1		
282301	Rayon and acetate filament yarns		19.4	11.6	16.2	14.9
282423	Polyester filament yarns		44.1	45.0	8.3	6.0
282411	Nylon filament yarns		13.8	4.3	11.7	8.6
282407	All other manmade filament yarns, except glass		(S)	8.2		
010014	All other fibers (silk, jute, reused wool, waste, etc.)		39.7	5.4	4.7	.9
228101	Purchased spun yarn, all fibers, including transfers from other plants of the same company	Million lb	196.6	201.7	199.6	126.1
220211	Purchased broad woven fabrics (piece goods), including transfers from other plants of the same company	Mil. lin. yd	401.0	323.8	363.1	162.2
280031	Dyes, lakes, and toners		(X)	82.1	(X)	29.0
970099	All other materials and components, parts, containers, and supplies		(X)	255.5	(X)	152.3
971000	Materials, containers, supplies, n.s.k.[2]		(X)	50.7	(X)	33.5
	INDUSTRY 2221, WEAVING MILLS, MANMADE FIBER AND SILK					
	Materials, containers, supplies		(X)	3,230.2	(X)	1,869.4
013101	Raw cotton	1,000 bales	1,202.4	430.6	1,397.5	245.3
229931	Raw wool, mohair, and other animal fibers (scoured weight)	Million lb	22.7	43.7	14.0	5.5
229933	Wool tops					
282305	Rayon and acetate staple and tow		138.0	88.3	224.0	73.4
282425	Polyester staple and tow		654.1	370.2	555.1	209.0
282413	Nylon staple and tow		29.5	20.6	90.2	55.9
282428	All other manmade fiber staple and tow, except glass		101.1	63.7		
282301	Rayon and acetate filament yarns		152.2	146.3	183.7	146.4
282423	Polyester filament yarns		396.7	341.1	142.7	146.1
282411	Nylon filament yarns		103.1	143.9	96.1	115.4
282407	All other manmade filament yarns, except glass		49.5	59.4		
322935	Glass filament yarn and roving		101.0	82.7	137.5	64.5
010014	All other fibers (silk, jute, reused wool, waste, etc.)		45.7	26.7	(NA)	11.5
228101	Purchased spun yarn, all fibers, including transfers from other plants of the same company	Million lb	659.0	688.0	406.5	334.5
220211	Purchased broad woven fabrics (piece goods), including transfers from other plants of the same company	Mil. lin. yd	236.9	214.8	279.6	145.5
280031	Dyes, lakes, and toners		(X)	70.9	(X)	47.7
970099	All other materials and components, parts, containers, and supplies		X	395.9	(X)	237.8
971000	Materials, containers, and supplies, n.s.k.[2]		X	43.4	(X)	30.9
	INDUSTRY 2231, WEAVING AND FINISHING MILLS, WOOL					
	Materials, containers, and supplies		X	225.0	(X)	188.7
229931	Raw wool, mohair, and other animal fibers (scoured weight)	Million lb	67.3	103.9	77.9	55.4
229933	Wool tops		*3.5	8.8	11.3	15.7
282305	Rayon and acetate staple and tow		(D)	D	[3]1.4	.7
282425	Polyester staple and tow		*8.8	6.0	10.6	5.4
282413	Nylon staple and tow		*9.5	7.9	12.1	7.1
282428	All other manmade fiber staple and tow, except glass		3.4	3.7		
010014	All other fibers (silk, jute, reused wool, waste, etc.)		(S)	9.3	10.0	4.4
282301	Rayon and acetate filament yarns		2.6	1.7	1.3	1.3
282423	Polyester filament yarns					
282411	Nylon filament yarns				1.9	1.5
282407	All other filament yarns, except glass					
322935	Glass filament yarn and roving		-	-	-	-
228101	Purchased spun yarn, all fibers, including transfers from other plants of the same company	Million lb	*10.5	21.3	39.4	40.7
220211	Purchased broad woven fabrics (piece goods), including transfers from other plants of the same company	Mil. lin. yd	(D)	D	7.2	10.7
280031	Dyes, lakes, and toners		(X)	11.2	(X)	14.6
970099	All other material and components, parts, containers, and supplies		(X)	19.7	(X)	18.2
971000	Materials, containers, and supplies, n.s.k.[2]		(X)	15.5	(X)	12.0

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2241, NARROW FABRIC MILLS					
	Materials consumed[4]	Million lb	163.0	197.7	180.2	161.5
228102	Cotton yarns		43.5	62.8	85.0	72.4
282301	Rayon and acetate filament yarns		27.8	31.9	30.4	28.7
282411	Nylon filament yarns		34.9	40.5	36.3	32.8
322933	Glass filament yarns		4.0	4.3	3.5	2.2
306986	Bare rubber thread		10.7	12.8	12.2	13.1
282423	Polyester filament yarns		.2	.6	.5	1.5
228132	Spun rayon yarns		3.8	3.2	2.6	1.6
228144	Saran and olefin yarns		9.1	7.4	4.4	2.4
224153	Covered spandex thread		.7	1.8	5.3	6.8
224151	Covered rubber thread					
228199	Other yarns	Million lb	28.2	32.4		

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available.
n.s.k. Not specified by kind. (S) Withheld because estimate did not meet pulbication standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[3]10 to 30 percent of quantity was estimated.

[4]Yarn consumption data for narrow fabric mills are collected and published annually in Current Industrial Reports MA-22G, Narrow Fabrics. The information shown is from that report.

Knitting Mills

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DESCRIPTION OF INDUSTRIES

KNITTING MILLS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2251	Women's Hosiery, Except Socks
2252	Hosiery, N.E.C.
2253	Knit Outerwear Mills
2254	Knit Underwear Mills
2257	Circular Knit Fabric Mills
2258	Wrap Knit Fabric Mills
2259	Knitting Mills, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2251, WOMEN'S HOSIERY, EXCEPT SOCKS

This industry comprises establishments primarily engaged in knitting, dyeing, or finishing women's and misses' full length and knee length hosiery, both seamless and full-fashioned.

The total value of shipments for establishments classified in the Women's Hosiery, Except Socks industry amounted to $871 million in 1977, a decrease of 12 percent from 1972. The value of shipments of products classified as primary to the industry was $819 million, a decrease of 9 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $457 million in 1977, was 4 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 26.6 thousand employees, a decrease of 46 percent from 1972. The leading States in employment were North Carolina, Tennessee, South Carolina, and New Mexico. Data for South Carolina and New Mexico have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agenices or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

INDUSTRY 2252, HOSIERY, N.E.C.

This industry comprises establishments primarily engaged in knitting, dyeing, or finishing hosiery, except women's and misses' full length and knee length seamless and full-fashioned hosiery.

The total value of shipments for establishments classified in the Hosiery, N.E.C. industry amounted to $921 million in 1977, an increase of 53 percent from 1972. The value of shipments of products classified as primary to the industry was $894 million, an increase of 52 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $402 million in 1977, was 36 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 32.2 thousand employees, a decrease of 1 percent from 1972. The leading States in employment were North Carolina, Tennessee, Georgia, and Alabama. Data for Alabama have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agenices or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2253, KNIT OUTERWEAR MILLS

This industry comprises establishments primarily engaged in knitting outerwear from yarn, or in manufacturing outerwear from knit fabric produced in the same establishment. Establishments primarily engaged in handknitting outerwear for the trade are included in this industry. Establishments primarily engaged in the manufacture of woven or purchased knit fabric gloves and mittens are classified in Industry 2381, Fabric Dress and Work Gloves; and those manufacturing outerwear from purchased knit fabric in Major Group 23, Apparel and Other Textile Products.

The total value of shipments for establishments classified in the Knit Outerwear Mills industry amounted to $2,336 million in 1977, an increase of 37 percent from 1972. The value of shipments of products classified as primary to the industry was $3,832 million, an increase of 60 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $1,160 million in 1977, was 45 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 73.0 thousand employees, a decrease of 2 percent from 1972. The leading States in employment were New York, Pennsylvania, North Carolina, and Virginia, accounting for approximately 60 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 65 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agenices or developed from industry averages. These establishments accounted for 16 percent of total value of shipments.

INDUSTRY 2254, KNIT UNDERWEAR MILLS

This industry comprises establishments primarily engaged in knitting underwear and nightwear from yarn, or in manufacturing underwear and nightwear from knit fabric produced in the same establishment. Establishments primarily engaged in the manufacture of underwear and nightwear from purchased knit fabric are classified in Major Group 23, Apparel and Other Textile Products.

The total value of shipments for establishments classified in the Knit Underwear Mills industry amounted to $649 million in 1977, an increase of 19 percent from 1972. The value of shipments of products classified as primary to the industry was $580 million, an increase of 20 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $306 million in 1977, was 21 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 25.2 thousand employees, a decrease of 3 percent from 1972. The leading States in employment were Pennsylvania, Kentucky, North Carolina, and Tennessee. Data for Kentucky and Tennessee have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agenices or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2257, CIRCULAR KNIT FABRIC MILLS

This industry comprises establishments primarily engaged in knitting circular (tubular) fabric, or in dyeing or finishing circular (tubular) knit fabric. Establishments primarily engaged in knitting, dyeing, or finishing warp fabric are classified in industry 2258.

The total value of shipments for establishments classified in the Circular Knit Fabric Mills industry amounted to $3,169 million in 1977, an increase of 13 percent from 1972. The value of shipments of products classified as primary to the industry was $3,111 million, an increase of 12 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $1,034 million in 1977, was approximately 1 percent below value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 51.8 thousand employees, a decrease of 24 percent from 1972. The leading States in employment were North Carolina, New York, South Carolina, and Pennsylvania, accounting for approximately 65 percent of the industry's 1977 employment. This represents a shift from 1972 when North Carolina, New York, New Jersey, and South Carolina accounted for approximately 65 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agenices or developed from industry averages. These establishments accounted for 7 percent of total value of shipments.

INDUSTRY 2258, WARP KNIT FABRIC MILLS

This industry comprises establishments primarily engaged in knitting warp (flat fabric), or in dyeing or finishing warp (flat) knit fabric. Establishments primarily engaged in knitting, dyeing, or finishing circular fabric are classified in industry 2257.

The total value of shipments for establishments classified in the Warp Knit Fabric Mills industry amounted to $1,407 million in 1977, an increase of 42 percent from 1972. The value of shipments of products classified as primary to the industry was $1,568 million, an increase of 69 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $444 million in 1977, was 40 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 23.7 thousand employees, an increase of 8 percent from 1972. The leading States in employment were North Carolina, Pennsylvania, New York, and New Jersey, accounting for approximately 70 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for 80 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agenices or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

INDUSTRY 2259, KNITING MILLS, N.E.C.

This industry comprises establishments primarily engaged in knitting gloves and other articles, not elsewhere classified.

The total value of shipments for establishments classified in the Knitting Mills, N.E.C. industry amounted to $96 million in 1977, an increase of 31 percent from 1972. The value of shipments of products classified as primary to the industry was $113 million, an increase of 30 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $41 million in 1977, was 2 percent below value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 3.4 thousand employees, a decrease of 13 percent from 1972. The leading State in employment was New York, accounting for approximately 50 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agenices or developed from industry averages. These establishments accounted for 37 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2251, WOMEN'S HOSIERY, EXCEPT SOCKS																
1977 Census--	176	200	119	26.6	191.3	23.8	44.1	156.6	457.0	415.5	871.2	16.6	(NA)	122.9	91	95
1976 ASM----	(NA)	(NA)	(NA)	26.4	179.3	23.6	43.1	145.2	362.4	356.4	713.5	13.1	308.2	113.1	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	30.5	185.9	26.8	47.2	148.1	334.0	402.9	762.5	15.9	331.4	119.8	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	34.7	194.4	30.3	52.7	152.9	326.2	435.6	781.7	13.7	350.0	139.3	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	46.0	234.6	40.4	70.3	188.3	381.0	501.2	886.1	17.8	391.6	172.7	(NA)	(NA)
1972 Census--	256	312	217	49.5	247.4	43.5	80.0	199.0	438.8	533.3	984.7	15.9	413.1	175.8	94	97
1971 ASM----	(NA)	(NA)	(NA)	56.4	24.2	49.8	87.8	213.0	491.6	589.8	1 112.6	24.5	444.2	206.2	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	67.3	307.6	60.5	107.1	253.0	600.6	772.4	1 367.9	47.0	446.6	237.6	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	69.4	310.6	62.6	118.8	258.6	677.9	674.6	1 313.4	50.0	434.9	222.9	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	64.5	272.5	58.3	110.1	230.2	510.7	532.5	1 025.6	35.0	383.9	166.6	(NA)	(NA)
1967 Census--	302	355	257	57.9	230.0	52.4	99.2	190.9	413.0	427.8	835.0	27.5	360.0	141.2	97	95
1966 ASM[5]---	(NA)	(NA)	(NA)	52.8	197.0	47.9	91.2	163.5	359.7	395.2	733.7	43.4	(NA)	133.1	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	52.0	185.1	47.3	88.4	155.2	334.1	354.8	679.7	36.8	(NA)	112.5	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	49.8	175.9	45.2	86.9	145.1	316.6	330.4	645.2	19.4	295.9	107.1	(NA)	(NA)
1963 Census--	363	411	268	51.5	170.9	47.1	87.8	144.1	296.3	313.0	606.6	16.2	293.3	104.4	96	94
INDUSTRY 2252, HOSIERY, N.E.C.																
1977 Census--	382	415	257	32.2	218.7	29.0	52.6	179.4	401.5	525.1	921.3	14.8	(NA)	127.3	96	96
1976 ASM----	(NA)	(NA)	(NA)	30.2	193.4	26.8	47.6	155.5	357.8	445.4	798.3	14.5	201.2	114.4	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	29.4	169.7	26.3	44.0	136.5	350.7	360.2	720.6	9.9	196.2	100.5	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	30.0	165.9	26.9	47.0	128.7	281.6	352.6	631.5	12.1	189.7	106.1	(NA)	(NA)
1973 ASM[5]---	(NA)	(NA)	(NA)	33.4	170.8	30.0	53.0	138.2	305.2	342.2	640.9	18.0	205.2	105.9	(NA)	(NA)
1972 Census--	375	415	269	32.6	159.7	29.3	53.8	128.5	295.2	309.7	600.6	12.5	198.3	91.5	95	94
1971 ASM----	(NA)	(NA)	(NA)	33.5	150.7	30.1	53.4	120.0	275.4	322.8	604.6	17.5	177.1	90.5	(NA)	(NA)
1970 ASM[5]---	(NA)	(NA)	(NA)	35.4	152.3	32.2	56.0	123.3	257.2	316.9	574.6	18.2	172.4	96.0	(NA)	(NA)
1969 ASM[5]---	(NA)	(NA)	(NA)	37.5	153.9	34.2	61.7	126.2	275.1	358.8	632.4	17.1	160.2	107.7	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	37.1	143.8	34.0	61.5	118.5	247.3	337.8	582.1	10.4	145.1	95.0	(NA)	(NA)
1967 Census--	423	448	290	39.0	136.9	35.8	64.5	113.2	230.7	322.2	550.1	9.4	144.5	92.2	80	95
1966 ASM----	(NA)	(NA)	(NA)	44.0	144.3	40.6	75.9	118.7	246.8	335.2	576.4	17.5	(NA)	93.4	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	45.6	144.4	42.3	78.7	120.1	245.8	315.6	553.7	12.1	(NA)	88.2	(NA)	(NA)
1964 ASM[5]---	(NA)	(NA)	(NA)	42.2	127.8	39.3	71.5	106.9	197.6	275.3	474.0	9.9	125.4	73.9	(NA)	(NA)
1963 Census--	504	528	338	43.3	124.1	40.1	71.3	104.5	192.2	258.4	451.1	6.2	117.3	78.2	91	96
INDUSTRY 2253, KNIT OUTERWEAR MILLS																
1977 Census--	902	958	551	73.0	582.0	62.7	114.0	422.0	1 159.5	1 207.1	2 335.9	49.9	(NA)	393.4	90	53
1976 ASM----	(NA)	(NA)	(NA)	69.3	525.7	59.4	108.9	380.3	994.4	1 144.8	2 140.7	35.2	451.7	328.2	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	65.4	483.3	55.6	103.2	349.5	953.4	1 012.8	1 995.7	46.7	444.2	315.8	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	76.1	513.7	65.7	120.8	373.1	996.7	1 069.4	2 047.3	41.9	425.4	351.2	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	80.2	491.7	70.0	132.2	371.1	937.5	989.0	1 914.3	54.0	486.9	316.1	(NA)	(NA)
1972 Census--	882	917	547	74.4	430.4	65.1	122.5	324.1	799.5	919.0	1 703.8	45.9	443.9	273.2	92	62
1971 ASM----	(NA)	(NA)	(NA)	73.9	394.9	65.2	119.1	297.3	643.7	711.6	1 341.6	47.9	362.0	225.7	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	73.4	362.2	64.2	118.0	271.8	582.6	620.4	1 226.1	37.8	346.8	185.7	(NA)	(NA)
1969 ASM[5]---	(NA)	(NA)	(NA)	80.6	409.2	70.2	132.5	307.7	667.0	733.7	1 395.9	41.4	339.4	206.5	(NA)	(NA)
1968 ASM[5]---	(NA)	(NA)	(NA)	80.9	403.2	70.3	135.1	305.8	681.9	756.9	1 407.6	28.2	307.6	208.8	(NA)	(NA)
1967 Census--	1 156	1 179	650	73.8	343.5	64.2	122.3	261.4	604.9	685.0	1 288.0	28.5	280.0	176.6	93	65
1966 ASM----	(NA)	(NA)	(NA)	77.0	330.2	67.3	131.1	257.3	572.4	696.7	1 273.1	49.4	(NA)	184.3	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	74.6	310.5	65.2	126.5	245.1	570.8	714.8	1 262.3	25.2	(NA)	181.1	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	73.2	289.6	64.0	124.9	222.7	496.0	636.2	1 123.3	16.7	178.9	176.6	(NA)	(NA)
1963 Census--	1 175	1 185	666	68.6	266.6	60.7	113.6	205.8	463.6	586.9	1 045.5	17.3	160.7	135.5	93	68
INDUSTRY 2254, KNIT UNDERWEAR MILLS																
1977 Census--	80	92	74	25.2	175.2	23.4	42.7	151.8	305.7	353.1	648.9	14.5	(NA)	131.3	80	66
1976 ASM----	(NA)	(NA)	(NA)	27.6	178.6	25.4	46.3	155.4	288.2	396.7	663.9	9.7	150.6	141.1	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	25.6	158.0	23.5	40.6	130.8	275.8	352.8	637.9	19.3	140.7	117.2	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	25.0	148.7	22.9	41.1	124.2	278.9	359.5	629.7	9.5	122.8	109.2	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	26.5	143.1	24.2	43.1	120.0	257.1	311.3	559.4	6.1	119.8	100.8	(NA)	(NA)
1972 Census--	74	87	74	26.0	134.6	23.8	43.5	111.6	251.5	290.2	544.6	7.0	124.9	83.6	90	94
1971 ASM----	(NA)	(NA)	(NA)	25.3	125.0	22.6	41.3	97.8	196.1	247.5	449.9	5.7	103.0	93.5	(NA)	(NA)
1970 ASM[5]---	(NA)	(NA)	(NA)	25.0	117.6	21.6	38.3	87.7	179.6	250.5	437.3	6.3	106.7	104.4	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	32.0	137.0	28.4	51.6	108.0	219.3	287.9	501.4	11.4	123.3	112.8	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	32.0	132.1	28.7	55.1	105.8	230.2	278.9	497.9	7.5	112.7	121.4	(NA)	(NA)
1967 Census--	98	113	97	30.7	115.2	27.2	49.3	87.7	201.4	250.7	445.3	7.2	108.5	101.0	85	91
1966 ASM----	(NA)	(NA)	(NA)	32.3	118.4	28.5	54.3	92.5	199.6	252.3	448.2	8.3	(NA)	100.5	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	31.1	111.3	27.8	52.3	87.3	183.3	240.5	417.5	7.4	(NA)	94.8	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	29.1	102.4	26.0	49.5	81.5	173.2	220.9	392.5	5.4	83.9	85.9	(NA)	(NA)
1963 Census--	104	118	104	28.4	95.9	25.6	48.1	76.1	170.7	200.4	364.8	4.8	79.9	84.3	89	91

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2257, CIRCULAR KNIT FABRIC MILLS																
1977 Census--	462	530	310	51.8	493.0	44.0	88.2	371.2	1 033.5	2 141.1	3 169.4	91.6	(NA)	316.2	90	88
1976 ASM----	(NA)	(NA)	(NA)	53.9	483.2	45.7	93.2	351.7	974.9	1 824.9	2 816.5	87.1	1 145.9	280.4	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	56.5	473.5	47.6	94.4	345.9	982.7	1 782.6	2 791.1	94.2	1 219.4	289.9	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	64.8	505.2	54.1	110.9	370.8	953.2	1 890.3	2 860.1	115.5	1 193.1	303.2	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	68.9	522.5	58.3	119.7	384.4	1 072.0	1 848.7	2 915.1	155.9	1 239.7	352.8	(NA)	(NA)
1972 Census--	629	716	430	68.1	492.6	57.3	121.7	362.1	1 036.0	1 800.8	2 808.8	270.1	1 139.5	336.4	93	91
INDUSTRY 2258, WARP KNIT FABRIC MILLS																
1977 Census--	215	235	153	23.7	226.7	20.0	41.9	169.8	444.4	963.9	1 407.2	56.3	(NA)	209.0	93	83
1976 ASM----	(NA)	(NA)	(NA)	21.3	198.6	18.0	36.6	145.3	423.5	971.6	1 384.8	42.0	464.4	194.5	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	19.2	178.7	15.9	31.8	125.6	344.9	907.6	1 264.8	33.6	410.5	185.5	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	21.2	178.1	17.6	35.8	129.1	371.0	880.5	1 251.4	38.3	366.2	187.7	(NA)	(NA)
1973 ASM[5]---	(NA)	(NA)	(NA)	24.2	177.4	20.0	40.9	132.3	372.1	774.0	1 138.9	40.1	380.6	195.8	(NA)	(NA)
1972 Census--	174	203	155	22.0	159.2	18.4	39.2	120.5	317.8	694.2	987.7	48.2	337.4	166.4	90	95
INDUSTRY 2259, KNITTING MILLS, N.E.C.																
1977 Census--	191	192	47	3.4	24.1	3.1	6.0	19.0	40.9	54.8	95.7	1.5	(NA)	15.2	97	81
1976 ASM[5]---	(NA)	11 032	(NA)	3.1	29.3	2.6	5.8	3.1	22.6	55.8	108.0	2.3	34.2	18.5	(NA)	(NA)
1975 ASM[5]---	(NA)	(NA)	(NA)	4.5	37.4	3.9	8.5	29.3	59.8	59.5	122.3	8.7	(S)	23.9	(NA)	(NA)
1974 ASM[5]---	(NA)	(NA)	(NA)	4.7	31.7	4.0	8.0	25.4	61.3	58.3	118.0	5.1	(S)	21.9	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	4.1	25.4	3.5	7.0	19.5	44.8	38.3	83.3	2.2	(S)	16.8	(NA)	(NA)
1972 Census--	72	73	33	3.9	23.1	3.3	6.5	17.4	41.8	32.2	73.1	2.0	(S)	13.9	93	78
1971 ASM----	(NA)	(NA)	(NA)	3.3	18.4	2.9	5.1	14.7	34.0	19.6	52.5	3.4	19.4	9.3	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	3.3	16.1	3.0	5.5	13.5	29.8	18.6	48.4	3.1	(S)	7.0	(NA)	(NA)
1969 ASM[5]---	(NA)	(NA)	(NA)	3.5	18.2	3.2	6.3	15.4	28.9	25.5	53.0	2.4	10.3	8.7	(NA)	(NA)
1968 ASM[5]---	(NA)	(NA)	(NA)	3.2	14.1	3.2	5.7	11.8	27.7	16.5	43.0	2.2	8.5	6.5	(NA)	(NA)
1967 Census[5]-	61	62	31	3.0	12.7	2.7	5.1	10.4	22.4	16.4	38.8	1.3	5.8	4.8	95	88
1966 ASM[5]---	(NA)	(NA)	(NA)	3.7	13.6	3.5	6.8	10.6	26.9	28.7	55.4	1.3	(NA)	6.9	(NA)	(NA)
1965 ASM[5]---	(NA)	(NA)	(NA)	3.5	11.7	3.2	6.1	9.4	23.7	23.4	46.3	0.5	(NA)	6.7	(NA)	(NA)
1964 ASM[5]---	(NA)	(NA)	(NA)	3.7	13.1	3.3	6.2	10.1	25.5	21.1	47.3	0.7	10.3	5.9	(NA)	(NA)
1963 Census[5]-	86	88	45	3.6	12.5	3.2	6.1	9.9	20.3	20.3	40.7	0.3	11.1	6.3	93	86

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2251, WOMEN'S HOSIERY, EXCEPT SOCKS											
1977 Census--	7 187	(NA)	89	1 851	3.55	47	69	(NA)	17 169	41	10.36
1976 ASM----	6 792	11 674	89	1 826	3.36	50	75	43	13 727	49	8.40
1975 ASM----	6 095	10 865	87	1 761	3.13	52	77	43	10 950	55	7.07
1974 ASM----	5 602	10 086	87	1 739	2.90	55	80	44	9 400	59	6.19
1973 ASM----	5 100	8 513	87	1 740	2.67	56	83	44	8 282	61	5.41
1972 Census--	4 998	8 345	87	1 839	2.48	54	79	42	8 864	56	5.48
1971 ASM----	4 703	7 880	88	1 763	2.42	53	76	39	8 716	53	5.59
1970 ASM----	4 570	6 640	89	1 770	2.36	56	78	32	8 924	51	5.60
1969 ASM----	4 475	6 270	90	1 897	2.17	51	75	33	9 768	45	5.70
1968 ASM----	4 224	5 951	90	1 888	2.09	51	78	37	7 917	53	4.63
1967 Census--	3 972	6 220	90	1 893	1.92	51	78	43	7 134	55	4.16
1966 ASM----	3 729	(NA)	90	1 903	1.79	53	80	(NA)	6 807	54	3.94
1965 ASM----	3 561	(NA)	90	1 868	1.75	52	79	(NA)	6 425	55	3.77
1964 ASM----	3 530	5 941	90	1 922	1.66	51	78	45	6 358	55	3.64
1963 Census--	3 316	5 700	91	1 864	1.64	51	79	48	5 751	57	3.37
INDUSTRY 2252, HOSIERY, N.E.C.											
1977 Census--	6 792	(NA)	90	1 814	3.40	56	80	(NA)	12 472	54	7.62
1976 ASM----	6 403	6 662	88	1 776	3.26	55	80	25	11 847	54	7.51
1975 ASM----	5 772	6 673	89	1 673	3.10	49	73	27	11 928	48	7.97
1974 ASM----	5 530	6 323	89	1 747	2.73	55	82	30	9 386	58	5.99
1973 ASM----	5 113	6 143	89	1 766	2.60	53	80	32	9 137	55	5.75
1972 Census--	4 898	6 082	89	1 836	2.38	51	78	33	9 055	54	5.48
1971 ASM----	4 498	5 290	89	1 774	2.24	53	78	29	8 220	54	5.15
1970 ASM----	4 302	4 870	90	1 739	2.20	55	81	30	7 265	59	4.59
1969 ASM----	4 104	4 270	91	1 804	2.04	56	81	25	7 336	55	4.45
1968 ASM----	3 876	3 911	91	1 808	1.92	58	82	24	6 665	58	4.02
1967 Census--	3 510	3 710	91	1 801	1.75	58	83	26	5 913	59	3.57
1966 ASM----	3 279	(NA)	92	1 869	1.56	58	83	(NA)	5 609	58	3.25
1965 ASM----	3 170	(NA)	92	1 860	1.52	56	83	(NA)	5 397	58	3.12
1964 ASM----	3 028	2 971	93	1 819	1.49	58	85	26	4 686	64	2.76
1963 Census--	2 866	2 560	92	1 778	1.46	57	84	26	4 434	64	2.69
INDUSTRY 2253, KNIT OUTERWEAR MILLS											
1977 Census--	7 972	(NA)	85	1 818	3.70	51	76	(NA)	15 883	50	10.17
1976 ASM----	7 585	6 518	85	1 833	3.49	53	78	21	14 349	52	9.13
1975 ASM----	7 389	6 792	85	1 856	3.38	50	74	22	14 577	50	9.23
1974 ASM----	6 750	5 590	86	1 838	3.08	52	77	20	13 097	51	8.25
1973 ASM----	6 130	6 071	87	1 888	2.80	51	77	25	11 689	52	7.09
1972 Census--	5 784	5 966	87	1 881	2.64	53	79	26	10 745	53	6.52
1971 ASM----	5 343	4 900	88	1 826	2.49	53	82	26	8 710	61	5.40
1970 ASM----	4 934	4 720	87	1 840	2.30	50	80	28	7 937	62	4.93
1969 ASM----	5 076	4 210	87	1 887	2.32	52	81	24	8 275	61	5.03
1968 ASM----	4 983	3 800	88	1 921	2.26	53	82	21	8 428	59	5.04
1967 Census--	4 656	3 790	88	1 906	2.13	53	79	21	8 196	56	4.92
1966 ASM----	4 288	(NA)	87	1 949	1.96	54	80	(NA)	7 433	57	4.36
1965 ASM----	4 162	(NA)	87	1 940	1.93	56	81	(NA)	7 651	54	4.51
1964 ASM----	3 956	2 440	87	1 951	1.78	56	82	15	6 778	58	3.97
1963 Census--	3 889	2 340	88	1 871	1.81	56	81	15	6 761	57	4.08
INDUSTRY 2254, KNIT UNDERWEAR MILLS											
1977 Census--	6 942	(NA)	92	1 826	3.55	54	81	(NA)	19 957	57	7.16
1976 ASM----	6 471	(NA)	92	1 822	3.35	59	86	(NA)	10 442	61	6.22
1975 ASM----	6 171	5 496	91	1 727	3.22	55	80	22	10 773	57	6.79
1974 ASM----	5 948	4 912	91	1 794	3.02	57	80	19	11 156	53	6.78
1973 ASM----	5 400	4 520	91	1 780	2.78	55	81	21	9 701	55	5.96
1972 Census--	5 176	4 803	91	1 827	2.56	53	78	22	9 673	53	5.78
1971 ASM----	4 940	4 071	89	1 827	2.36	55	82	22	7 750	63	4.74
1970 ASM----	4 704	4 270	86	1 773	2.28	57	84	24	7 184	65	4.68
1969 ASM----	4 218	3 850	88	1 816	2.09	57	84	24	6 853	62	4.25
1968 ASM----	4 128	3 521	89	1 919	1.92	56	82	22	7 193	57	4.17
1967 Census--	3 756	3 530	88	1 814	1.77	56	82	24	6 560	57	4.08
1966 ASM----	3 665	(NA)	89	1 885	1.70	56	82	(NA)	6 179	59	3.67
1965 ASM----	3 578	(NA)	89	1 883	1.66	57	84	(NA)	5 893	60	3.50
1964 ASM----	3 523	2 880	89	1 905	1.64	56	82	21	5 960	59	3.49
1963 Census--	3 380	2 810	90	1 881	1.58	54	81	21	6 019	56	3.54

See footnotes at end of table.

Table 1b. **Selected Operating Ratios for the Industry: 1977 and Earlier Years**—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2257, CIRCULAR KNIT FABRIC MILLS										
1977 Census--	9 519	(NA)	84	2 005	4.20	67	83	(NA)	19 957	47	11.71
1976 ASM----	8 964	21 259	84	2 039	3.77	64	81	40	18 087	49	10.46
1975 ASM----	8 380	21 582	84	1 983	3.66	63	80	43	17 392	48	10.40
1974 ASM----	7 796	18 412	83	2 049	3.34	66	83	41	14 709	53	8.59
1973 ASM----	7 583	17 992	84	2 053	3.21	63	81	42	15 558	48	8.95
1972 Census--	7 233	16 732	84	2 123	2.97	64	81	40	15 212	47	8.51
	INDUSTRY 2258, WARP KNIT FABRIC MILLS										
1977 Census--	9 580	(NA)	84	2 094	4.05	68	84	(NA)	18 777	51	10.61
1976 ASM----	9 323	21 802	84	2 033	3.96	70	84	33	19 882	46	11.57
1975 ASM----	9 307	21 380	82	2 000	3.94	71	85	32	17 963	51	10.84
1974 ASM----	8 400	17 273	83	2 034	3.60	70	84	29	17 500	48	10.36
1973 ASM----	7 330	15 727	82	2 045	3.23	67	83	33	15 376	47	9.09
1972 Census--	7 236	15 336	83	2 130	3.07	70	86	34	14 445	50	8.10
	INDUSTRY 2259, KNITTING MILLS, N.E.C.										
1977 Census--	7 076	(NA)	90	1 942	3.17	57	82	(NA)	12 014	58	6.81
1976 ASM----	9 451	11 032	83	2 230	3.89	51	78	31	16 451	57	8.79
1975 ASM----	8 311	(S)	86	2 179	3.44	48	79	(S)	13 288	62	7.03
1974 ASM----	6 744	(S)	85	2 000	3.17	49	76	(S)	13 042	51	7.66
1973 ASM----	6 195	(S)	85	2 000	2.78	45	76	(S)	10 926	56	6.40
1972 Census--	5 923	(S)	84	1 969	2.67	44	75	(S)	10 717	55	6.43
1971 ASM----	5 575	5 880	87	1 758	2.88	37	72	36	10 303	54	5.66
1970 ASM----	4 878	(S)	90	1 833	2.45	38	71	(S)	9 030	54	5.41
1969 ASM----	5 200	2 940	91	1 968	2.44	48	82	19	8 257	62	4.58
1968 ASM----	4 406	2 660	100	1 781	2.07	38	71	19	8 656	50	4.85
1967 Census--	4 233	2 270	90	1 890	2.03	42	75	17	7 423	56	4.37
1966 ASM----	3 701	(NA)	94	1 975	1.55	51	76	(NA)	7 296	50	3.93
1965 ASM----	3 319	(NA)	91	1 942	1.54	50	75	(NA)	6 754	49	3.88
1964 ASM----	3 582	2 780	89	1 915	1.62	44	72	21	6 959	51	4.09
1963 Census--	3 423	3 080	88	1 883	1.64	49	80	27	5 581	61	3.35

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2251, WOMEN'S HOSIERY, EXCEPT SOCKS													
United States	-	200	119	26.6	191.3	23.8	44.1	156.6	457.0	415.5	871.2	16.6	49.5	438.8
Middle Atlantic Division:													
New York	E9	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	0.8
Pennsylvania	E3	24	6	0.3	2.1	0.3	0.5	1.7	3.6	3.1	7.1	(D)	EE	(D)
South Atlantic Division:														
Virginia	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	11.2
North Carolina	-	115	81	17.9	129.1	15.9	29.4	105.1	283.3	297.9	579.7	11.6	29.5	263.4
South Carolina	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	26.8
Georgia	E0	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Florida	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	7.6
East South Central Division:														
Kentucky	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Tennessee	-	14	9	2.2	15.0	2.0	3.5	11.6	20.6	28.5	50.3	0.7	5.0	38.8
Mississippi	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	11.8
West South Central Division:														
Arkansas	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Mountain Division:														
Idaho	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
New Mexico	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
INDUSTRY 2252, HOSIERY, N.E.C.														
United States	-	415	257	32.2	218.7	29.0	52.6	179.4	401.5	525.1	921.3	14.8	32.6	295.2
New England Division:														
New Hampshire	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Massachusetts	E1	3	3	0.2	1.1	0.1	0.3	0.7	2.3	2.6	4.8	(Z)	AA	(D)
Middle Atlantic Division:														
New York	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pennsylvania	-	13	5	1.3	10.4	1.0	1.9	7.4	18.1	18.4	36.4	0.3	2.1	23.3
East North Central Division:														
Illinois	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Wisconsin	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Atlantic Division:														
Virginia	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	5.4
North Carolina	-	251	168	20.3	138.7	18.5	33.6	116.0	252.7	339.4	589.9	7.9	19.4	178.3
South Carolina	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.8
Georgia	-	22	15	1.9	12.4	1.6	3.0	10.0	22.9	30.0	52.1	0.7	1.9	12.9
East South Central Division:														
Kentucky	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Tennessee	-	35	29	4.2	27.4	3.8	6.9	22.7	50.6	62.2	111.7	1.9	4.4	32.9
Alabama	-	28	15	1.4	7.7	1.2	1.9	6.2	13.7	19.0	32.2	(D)	CC	(D)
Mississippi	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Louisiana	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDUSTRY 2253, KNIT OUTERWEAR MILLS														
United States	E1	953	551	73.0	582.0	62.7	114.0	422.0	1 159.5	1 207.1	2 335.9	49.9	74.4	799.4
New England Division:														
Maine	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
New Hampshire	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	19.1
Massachusetts	-	21	16	2.6	21.1	2.0	3.6	14.3	53.2	52.8	101.2	1.5	2.5	28.2
Connecticut	-	9	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	E2	477	254	17.5	149.1	15.1	28.1	110.1	259.9	372.7	628.4	17.1	20.6	239.8
New Jersey	E2	98	51	4.2	33.4	3.8	7.1	27.1	56.5	41.9	95.1	(D)	3.6	39.0
Pennsylvania	E2	84	67	12.6	99.9	10.9	19.1	73.9	206.8	202.8	406.0	5.8	13.6	144.2
East North Central Division:														
Ohio	-	11	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Illinois	E1	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Wisconsin	-	8	7	2.0	17.6	1.7	3.3	12.6	38.7	19.3	55.3	0.6	0.9	10.2
West North Central Division:														
Minnesota	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Iowa	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Virginia	-	10	10	7.1	51.8	6.3	11.2	38.0	151.1	90.7	237.2	4.2	6.6	52.3
West Virginia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
North Carolina	-	45	30	8.2	58.0	7.4	13.6	47.0	106.0	115.9	217.3	(D)	8.3	92.9
South Carolina	-	10	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Georgia	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida	-	24	13	2.5	17.8	2.2	3.8	12.2	32.6	17.8	50.6	(D)	EE	(D)
East South Central Division:														
Kentucky	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	-	11	5	0.7	4.1	0.6	1.2	3.4	6.3	5.0	11.4	0.1	BB	(D)
Alabama	-	8	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
West South Central Division:														
Texas	E2	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
Washington	E1	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oregon	-	8	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
California	E2	73	33	2.5	18.2	2.2	3.9	13.6	34.6	23.7	57.6	0.7	EE	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977												1972	
		All establishments		All employees		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2253-11, Manufacturers														
United States	(NA)	557	290	52.5	408.2	45.5	82.7	298.3	819.0	668.1	1 470.4	25.9	45.0	468.1
New England Division:														
Maine	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
New Hampshire	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Massachusetts	E3	11	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	6.3
Connecticut	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	E4	235	101	8.4	67.2	7.5	13.7	51.9	112.6	110.5	223.1	8.8	9.5	91.3
New Jersey	E3	53	20	2.0	15.2	1.9	3.4	12.4	27.0	23.9	49.3	1.1	1.2	13.1
Pennsylvania	E1	59	46	10.6	84.7	9.2	16.0	62.4	168.6	154.9	322.4	4.4	9.8	100.7
East North Central Division:														
Ohio	-	10	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	22.6
Illinois	E1	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	BB	(D)
Wisconsin	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:														
Minnesota	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Iowa	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Virginia	-	8	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
West Virginia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
North Carolina	-	35	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
South Carolina	-	6	4	1.3	8.3	1.1	2.4	6.7	12.0	10.1	22.3	(D)	EE	(D)
Florida	-	13	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East South Central Division:														
Kentucky	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Alabama	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
West South Central Division:														
Texas	-	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	6.4	(D)	(NA)	(NA)
Pacific Division:														
Washington	E1	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oregon	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
California	E3	48	22	1.9	15.1	1.7	3.2	11.2	29.1	19.1	41.6	0.5	EE	(D)
Industry 2253-22, Converters														
United States	(NA)	87	57	6.5	65.3	4.0	7.2	29.8	181.1	499.4	667.7	11.4	6.8	142.6
New England Division:														
Massachusetts	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Connecticut	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	E1	59	23	2.0	24.1	1.0	1.8	7.0	65.5	239.8	301.6	3.1	1.4	55.6
New Jersey	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pennsylvania	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	27.0
South Atlantic Division:														
North Carolina	-	4	2	0.2	1.8	0.2	0.3	1.1	3.5	14.8	18.3	(D)	(NA)	(NA)
South Carolina	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Industry 2253-33, Contractors														
United States	(NA)	309	224	14.1	108.5	13.1	24.0	93.9	159.4	39.6	197.8	9.6	22.6	188.8
New England Division:														
Massachusetts	-	7	6	1.2	8.8	1.1	1.9	8.0	15.8	2.7	18.2	0.9	EE	(D)
Connecticut	E7	4	3	0.2	1.4	0.2	0.3	0.9	1.7	0.2	1.9	(D)	AA	(D)
Middle Atlantic Division:														
New York	E2	183	130	7.0	57.8	6.7	12.6	51.2	81.8	22.4	103.7	5.2	9.6	92.8
New Jersey	-	40	29	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Pennsylvania	E1	22	18	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	16.6
East North Central Division:														
Ohio	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Wisconsin	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
North Carolina	-	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	12.5
South Carolina	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.2
Georgia	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida	-	10	8	0.3	2.4	0.3	0.5	1.6	1.8	0.3	2.8	(Z)	CC	(D)
East South Central Division:														
Tennessee	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	E1	19	11	0.5	2.6	0.5	1.7	2.3	4.0	0.7	4.7	0.1	0.3	2.6

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2254, KNIT UNDERWEAR MILLS													
United States	-	**92**	**74**	**25.2**	**175.2**	**23.4**	**42.7**	**151.8**	**305.7**	**353.1**	**648.9**	**14.5**	**26.0**	**251.5**
Middle Atlantic Division:													
New York	-	14	9	1.0	7.2	1.0	1.7	6.0	15.4	14.9	29.8	0.1	EE	(D)
Pennsylvania	-	34	29	4.5	31.9	3.9	7.0	25.3	63.6	85.0	147.5	3.5	FF	(D)
East North Central Division:														
Ohio	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Michigan	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Virginia	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
North Carolina	-	14	10	4.7	29.4	4.4	7.6	25.0	49.6	53.6	100.8	(D)	4.9	34.0
South Carolina	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	-	3	3	1.0	6.2	1.0	1.7	5.8	19.2	10.3	28.1	(D)	EE	(D)
East South Central Division:														
Kentucky	-	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Tennessee	-	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Alabama	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Mississippi	-	4	4	1.4	9.1	1.3	2.5	7.8	19.5	15.7	34.7	(D)	1.1	8.4
West South Central Division:														
Louisiana	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Texas	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Mountain Division:														
Utah	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
INDUSTRY 2257, CIRCULAR KNIT FABRIC MILLS														
United States	-	**530**	**310**	**51.8**	**493.0**	**44.0**	**88.2**	**371.2**	**1 033.5**	**2 141.1**	**3 169.4**	**91.6**	**58.0**	**1 036.0**
New England Division:														
New Hampshire	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Vermont	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Massachusetts	-	11	8	3.3	32.6	2.8	5.4	24.6	70.5	99.6	169.7	6.5	3.6	57.3
Rhode Island	-	7	3	0.8	6.9	0.7	1.3	5.5	9.5	21.4	31.0	(D)	2.0	24.0
Connecticut	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	13.6
Middle Atlantic Division:														
New York	E1	157	61	5.9	59.8	5.0	10.2	43.0	116.2	270.2	389.1	9.4	8.4	181.4
New Jersey	-	45	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.7	92.3
Pennsylvania	E1	45	28	3.5	35.2	2.9	5.9	26.2	75.9	129.5	204.0	6.8	4.2	59.5
East North Central Division:														
Wisconsin	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West North Central Division:														
Minnesota	-	4	4	0.9	7.8	0.8	1.5	5.8	7.7	35.6	43.6	(D)	CC	(D)
South Atlantic Division:														
Virginia	-	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
North Carolina	-	148	110	19.9	182.4	17.1	(D)	(D)	(D)	(D)	(D)	(D)	23.0	319.2
South Carolina	-	22	19	3.5	35.0	2.8	5.8	25.4	69.9	130.2	202.2	7.2	6.3	89.0
Georgia	-	9	8	1.6	16.8	1.2	2.4	11.2	27.2	92.3	(D)	1.1	1.6	17.8
Florida	E1	12	8	0.6	6.6	0.5	1.2	4.8	12.8	22.2	34.6	2.8	CC	(D)
East South Central Division:														
Tennessee	-	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Alabama	-	10	9	1.8	13.9	1.8	2.9	13.2	19.6	58.1	77.1	3.0	CC	(D)
Mississippi	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
California	-	23	11	1.3	11.7	1.0	2.1	8.8	20.0	42.9	63.2	1.4	(NA)	(D)
Industry 2257-11, Manufacturers														
United States	(NA)	**334**	**180**	**37.6**	**359.1**	**31.9**	**63.8**	**289.9**	**767.8**	**1 734.1**	**2 498.9**	**61.1**	**42.0**	**632.0**
New England Division:														
Massachusetts	-	9	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(NA)
Rhode Island	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	15.4
Middle Atlantic Division:														
New York	E1	94	33	3.8	37.1	3.3	6.8	27.4	74.2	142.0	217.3	3.8	4.1	77.4
New Jersey	-	29	9	2.1	21.5	1.8	3.8	17.4	49.7	108.6	154.5	3.1	3.4	57.9
Pennsylvania	E1	23	9	2.3	24.0	1.9	3.8	17.3	59.0	122.5	180.1	4.5	1.3	20.6
East North Central Division:														
Wisconsin	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:														
Minnesota	-	4	4	0.9	7.8	0.8	1.5	5.8	7.7	35.6	43.6	(D)	CC	(D)
South Atlantic Division:														
Virginia	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
North Carolina	-	98	66	15.0	139.3	12.8	25.6	105.6	320.6	815.7	1 134.7	28.1	13.5	191.3
South Carolina	-	12	10	2.0	20.4	1.6	3.2	14.6	37.2	77.3	117.3	2.5	FF	(D)
Georgia	-	11	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	17.8
Florida	E2	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
East South Central Division:														
Tennessee	-	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Alabama	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Mississippi	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
California	-	13	5	0.9	8.5	0.8	1.5	6.4	13.0	31.5	45.2	(D)	CC	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977												1972	
		All establishments		All employees		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2257-22, Converters														
United States	(NA)	45	25	3.2	31.8	2.5	4.9	21.1	94.9	325.6	418.4	8.7	5.6	131.5
Middle Atlantic Division:														
New York	-	20	9	0.6	7.9	0.4	0.7	3.1	19.9	117.5	139.0	1.7	1.4	55.5
New Jersey	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Atlantic Division:														
North Carolina	E1	8	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
South Carolina	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
California	-	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Industry 2257-33, Contractors														
United States	(NA)	151	105	10.9	102.0	9.7	19.5	80.2	170.7	81.3	252.2	21.8	20.4	272.5
New England Division:														
Vermont	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Connecticut	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Middle Atlantic Division:														
New York	-	43	19	1.5	14.9	1.3	2.7	12.4	22.1	10.7	32.7	3.9	2.9	48.5
New Jersey	-	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Pennsylvania	E1	21	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
South Atlantic Division:														
Virginia	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
North Carolina	-	42	36	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
South Carolina	-	8	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Georgia	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida	-	5	4	0.2	2.3	0.2	0.5	1.8	4.9	1.1	6.0	(D)	AA	(D)
East South Central Division:														
Alabama	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Pacific Division:														
California	-	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDUSTRY 2258, WARP KNIT FABRIC MILLS														
United States	-	235	153	23.7	226.7	20.0	41.9	169.8	444.4	963.9	1 407.2	58.3	22.0	317.8
New England Division:														
Massachusetts	-	6	6	0.2	2.3	0.2	0.4	1.5	4.8	6.0	10.8	0.5	AA	(D)
Rhode Island	-	7	7	0.6	6.4	0.5	1.0	4.8	13.5	24.2	36.7	(D)	CC	(D)
Connecticut	-	9	8	1.1	9.9	0.9	1.9	7.5	19.8	40.5	60.2	1.4	BB	(D)
Middle Atlantic Division:														
New York	-	51	23	2.4	22.2	2.0	(D)	(D)	(D)	(D)	(D)	13.2	3.3	50.2
New Jersey	E1	44	20	2.2	23.3	1.9	4.0	17.2	35.9	53.1	90.5	(D)	2.1	30.6
Pennsylvania	-	26	20	2.9	29.3	2.5	5.0	23.4	53.3	142.9	(D)	(D)	3.9	78.2
South Atlantic Division:														
Virginia	-	4	3	1.0	8.7	0.9	1.9	7.5	13.5	33.5	47.3	(D)	CC	(D)
North Carolina	-	62	44	9.1	86.8	7.6	16.3	64.8	178.5	362.4	540.6	25.5	7.9	96.3
South Carolina	-	9	9	1.5	14.7	1.2	2.6	10.1	32.1	72.9	(D)	3.3	1.5	21.5
East South Central Division:														
Tennessee	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Alabama	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Mississippi	E1	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	-	5	4	0.5	6.0	0.4	0.8	3.7	11.6	21.2	32.6	(D)	AA	(D)
Industry 2258-11, Manufacturers														
United States	(NA)	157	93	15.7	154.4	13.1	27.9	114.0	308.3	694.8	1 002.6	29.7	13.7	196.0
New England Division:														
Rhode Island	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Connecticut	-	5	4	0.7	6.8	0.6	1.3	5.1	14.0	33.6	47.7	(D)	BB	(D)
Middle Atlantic Division:														
New York	-	34	12	1.3	11.5	1.1	2.1	8.6	24.5	47.9	71.5	2.0	EE	(D)
New Jersey	E1	36	14	1.8	17.9	1.5	3.2	12.8	27.2	49.5	78.3	1.3	EE	(D)
Pennsylvania	-	15	11	1.8	19.2	1.5	3.0	15.3	31.0	97.5	128.9	3.1	EE	(D)
South Atlantic Division:														
Virginia	-	4	3	1.0	8.7	0.9	1.9	7.5	13.5	33.5	47.3	(D)	CC	(D)
North Carolina	-	33	23	5.0	50.8	4.0	8.9	36.0	121.1	244.1	361.9	11.9	FF	(D)
South Carolina	-	6	6	1.0	10.2	0.8	1.8	6.7	24.5	48.5	75.2	(D)	EE	(D)
East South Central Division:														
Tennessee	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Alabama	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Mississippi	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 2. **Industry Statistics by Geographic Area: 1977 and 1972**—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2258-22, Converters													
United States	**(NA)**	**22**	**14**	**2.7**	**25.8**	**2.2**	**4.7**	**17.8**	**61.6**	**231.8**	**292.9**	**12.0**	**2.6**	**53.8**
Middle Atlantic Division:													
New York	-	8	5	0.4	3.9	0.3	0.6	1.3	20.7	63.9	84.5	(D)	BB	(D)
Pennsylvania	-	3	2	0.5	4.3	0.4	0.8	3.2	15.0	40.6	54.5	(Z)	CC	(D)
South Atlantic Division:														
North Carolina	-	8	4	1.4	13.5	1.2	2.5	10.1	18.4	99.1	120.7	1.3	CC	(D)
South Carolina	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Industry 2258-33, Contractors													
United States	**(NA)**	**56**	**46**	**5.2**	**46.5**	**4.7**	**9.3**	**38.1**	**74.5**	**37.3**	**111.7**	**14.7**	**5.8**	**68.0**
New England Division:													
Connecticut	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:													
New York	E1	9	6	0.8	6.7	0.7	1.4	5.1	8.7	3.4	12.1	(D)	1.8	20.6
New Jersey	-	8	6	0.5	5.3	0.4	0.8	4.4	8.6	3.6	12.2	0.8	0.7	6.9
Pennsylvania	-	8	7	0.6	5.7	0.6	1.1	5.0	7.3	4.8	12.1	0.3	1.1	16.2
South Atlantic Division:														
North Carolina	-	21	17	2.7	22.5	2.5	5.0	18.6	39.0	19.2	58.1	12.3	EE	(D)
INDUSTRY 2259, KNITTING MILLS, N.E.C.														
United States	**E3**	**192**	**47**	**3.4**	**24.1**	**3.1**	**6.0**	**19.0**	**40.9**	**54.8**	**95.7**	**1.5**	**3.9**	**41.8**
Middle Atlantic Division:														
New York	E4	79	24	1.6	11.8	1.4	2.7	9.2	15.6	27.2	42.6	(D)	EE	(D)
New Jersey	E8	22	1	0.2	1.5	0.2	0.4	1.1	2.3	2.8	5.1	0.1	BB	(D)
Pennsylvania	-	7	4	0.2	1.9	0.2	0.4	1.4	4.8	3.2	8.0	(D)	0.3	2.7
South Atlantic Division:														
North Carolina	E4	35	4	0.4	2.4	0.4	0.7	2.0	4.8	6.6	11.4	0.1	0.3	1.9

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Women's hosiery, except socks (SIC 2251)	Hosiery, n.e.c. (SIC 2252)	Knit outerwear mills (SIC 2253)				Knit underwear mills (SIC 2254)
				Total	Manufacturers (SIC 2253-11)	Converters (SIC 2253-22)	Contractors (SIC 2253-33)	
Primary product specialization ratio[1]	percent	91	96	90	(NA)	(NA)	(NA)	80
Coverage ratio[2]	do	95	96	53	(NA)	(NA)	(NA)	96
All establishments	number	200	415	953	557	87	309	92
With 1 to 19 employees	do	81	158	402	267	50	85	18
With 20 to 99 employees	do	55	156	389	168	25	196	29
With 100 employees or more	do	64	101	162	122	12	28	45
All employees, average for year	1,000	26.6	32.2	73.0	52.5	6.5	14.1	25.2
Payroll for year, all employees	mil. dol.	191.3	218.7	582.0	408.2	65.3	108.5	175.2
Production workers:								
Average for year	1,000	23.8	29.0	62.7	45.5	4.0	13.1	23.4
March	do	23.8	28.3	60.1	43.5	4.0	12.6	23.0
May	do	23.7	28.8	62.2	45.0	3.9	13.3	23.3
August	do	23.8	29.4	64.4	46.9	4.1	13.3	23.3
November	do	24.0	29.5	64.0	46.7	3.9	13.3	23.8
Hours	millions	44.1	52.6	114.0	82.7	7.2	24.0	42.7
January to March	do	11.0	12.6	26.2	18.8	1.8	5.6	10.2
April to June	do	11.2	13.5	29.2	21.0	1.9	6.3	11.0
July to September	do	10.5	13.2	29.5	21.5	1.8	6.2	10.5
October to December	do	11.4	13.4	29.1	21.4	1.7	6.0	10.9
Wages	mil. dol.	156.6	179.4	422.0	298.3	29.8	93.9	151.8
Cost of materials, etc.	do	415.5	525.1	1 207.1	668.1	499.4	39.6	353.1
Materials, parts, containers, etc., consumed	do	373.4	478.1	887.9	560.0	299.9	28.0	325.8
Resales	do	12.1	19.8	45.3	40.5	4.7	0.1	5.4
Fuels consumed	do	6.0	7.4	15.7	10.6	1.6	3.6	6.8
Purchased electric energy	do	11.2	7.9	16.7	10.8	2.7	3.3	5.5
Contract work	do	12.8	12.0	241.4	46.3	190.6	4.6	9.8
Value of shipments, including resales	do	871.2	921.3	2 335.9	1 470.4	667.7	197.8	648.9
Value of resales	do	13.0	21.2	66.7	58.7	7.6	0.1	5.4
Value added by manufacture	do	457.0	401.5	1 159.5	819.0	181.1	159.4	305.7
Manufacturers' inventories:								
Beginning of year	do	119.8	118.8	342.5	249.6	82.1	10.9	116.8
Finished products	do	38.4	42.8	142.9	112.3	28.2	2.4	56.9
Work in process	do	52.1	48.9	79.9	59.1	16.7	4.1	26.9
Materials, supplies, fuel, etc.	do	29.3	27.1	119.8	78.2	37.1	4.4	33.1
End of year	do	122.9	127.3	393.4	279.5	101.3	12.6	131.3
Finished products	do	41.4	46.2	160.8	119.6	38.8	2.4	64.5
Work in process	do	50.4	50.9	92.6	68.4	18.9	5.2	23.2
Materials, supplies, fuel, etc.	do	31.0	30.2	140.0	91.6	43.5	5.0	37.7
Capital expenditures for plant and equipment	do	17.6	16.4	58.3	32.0	12.7	13.6	16.4
New capital expenditures	do	16.6	14.8	49.9	28.8	11.4	9.6	14.5
New buildings and other structures	do	3.9	3.6	5.3	3.8	0.7	0.8	4.2
New machinery and equipment	do	12.6	11.3	44.6	25.1	10.7	8.8	10.2
Used capital expenditures	do	1.1	1.6	8.4	3.1	1.3	4.0	1.9

See footnotes at end of table.

Table 3a. **Summary Statistics for the Industry: 1977**—Con.

[For explanation of terms, see appendix A]

Item	Unit of measure	Circular knit fabric mills (SIC 2257) Total	Manufacturers (SIC 2257-11)	Converters (SIC 2257-22)	Contractors (SIC 2257-33)	Warp knit fabric mills (SIC 2258) Total	Manufacturers (SIC 2258-11)	Converters (SIC 2258-22)	Contractors (SIC 2258-33)	Knitting mills, n.e.c. (SIC 2259)
Primary product specialization ratio[1]	percent	90	(NA)	(NA)	(NA)	93	(NA)	(NA)	(NA)	97
Coverage ratio[2]	do	88	(NA)	(NA)	(NA)	83	(NA)	(NA)	(NA)	81
All establishments	number	530	334	45	151	235	157	22	56	192
With 1 to 19 employees	do	220	154	20	46	82	64	8	10	145
With 20 to 99 employees	do	166	75	16	75	86	50	8	28	41
With 100 employees or more	do	144	105	9	30	67	43	6	18	6
All employees, average for year	1,000	51.8	37.6	3.2	10.9	23.7	15.7	2.7	5.2	3.4
Payroll for year, all employees	mil. dol.	493.0	359.1	31.8	102.0	226.7	154.4	25.8	46.5	24.1
Production workers:										
Average for year	1,000	44.0	31.9	2.5	9.7	20.0	13.1	2.2	4.7	3.1
March	do	43.8	31.5	2.5	9.7	19.5	12.7	2.2	4.6	3.3
May	do	45.0	32.6	2.5	9.8	20.0	13.2	2.1	4.7	3.5
August	do	44.4	32.0	2.5	9.8	20.5	13.3	2.3	4.9	2.8
November	do	42.8	31.3	2.3	9.2	20.0	13.1	2.3	4.7	2.7
Hours	millions	88.2	63.8	4.9	19.5	41.9	27.9	4.7	9.3	6.0
January to March	do	21.8	15.7	1.3	4.9	10.3	7.0	1.1	2.2	1.6
April to June	do	23.5	16.9	1.3	5.2	10.7	7.2	1.2	2.3	1.7
July to September	do	21.8	15.8	1.2	4.8	10.4	6.9	1.2	2.4	1.4
October to December	do	21.1	15.4	1.1	4.6	10.4	6.8	1.2	2.4	1.3
Wages	mil. dol.	371.2	269.9	21.1	80.2	169.8	114.0	17.8	38.1	19.0
Cost of materials, etc.	do	2 141.1	1 734.1	325.6	81.3	963.9	694.8	231.8	37.3	54.8
Materials, parts, containers, etc., consumed	do	1 885.1	1 584.7	239.0	61.3	842.0	649.7	164.7	27.6	54.1
Resales	do	63.7	63.7	(Z)	(Z)	0.7	0.6	(Z)	0.1	(Z)
Fuels consumed	do	45.1	32.9	1.2	11.1	20.4	12.7	1.7	5.9	0.3
Purchased electric energy	do	34.9	26.0	1.6	7.2	17.0	11.8	1.9	3.3	0.5
Contract work	do	112.3	26.8	83.8	1.8	83.9	20.0	63.4	0.5	(Z)
Value of shipments, including resales	do	3 169.4	2 498.9	418.4	252.2	1 407.2	1 002.6	292.9	111.7	95.7
Value of resales	do	83.2	83.0	(Z)	0.1	1.3	1.2	(Z)	0.1	0.1
Value added by manufacture	do	1 033.5	767.8	94.9	170.7	444.4	308.3	61.6	74.5	40.9
Manufacturers' inventories:										
Beginning of year	do	307.2	249.4	34.3	23.5	198.8	153.5	39.9	5.4	14.8
Finished products	do	92.6	75.1	16.1	1.4	61.9	43.9	16.9	1.2	5.4
Work in process	do	87.0	69.2	9.9	8.0	64.8	48.9	14.8	1.1	2.5
Materials, supplies, fuel, etc.	do	127.5	105.1	8.4	14.1	72.1	60.7	8.2	3.2	7.0
End of year	do	316.2	253.5	39.3	23.4	209.0	160.6	42.7	5.7	15.2
Finished products	do	90.1	72.0	17.0	1.1	52.7	41.0	10.4	1.2	5.2
Work in process	do	94.8	75.5	11.1	8.2	75.2	52.3	21.8	1.1	2.7
Materials, supplies, fuel, etc.	do	131.3	106.0	11.2	14.1	81.2	67.3	10.5	3.4	7.3
Capital expenditures for plant and equipment	do	104.5	69.6	9.6	26.3	59.9	31.6	13.4	14.9	1.6
New capital expenditures	do	91.6	61.1	8.7	21.8	56.3	29.7	12.0	14.7	1.5
New buildings and other structures	do	11.5	7.6	1.5	2.4	20.1	6.6	10.2	3.2	0.2
New machinery and equipment	do	80.0	53.5	7.2	19.4	36.2	23.1	1.8	11.4	1.4
Used capital expenditures	do	12.9	7.5	0.9	4.5	3.6	2.0	1.4	0.3	(Z)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Women's hosiery, except socks (SIC 2251)		Hosiery, n.e.c. (SIC 2252)		Knit outerwear mills (SIC 2253)		Knit underwear mills (SIC 2254)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	(0.7)	37	(1.1)	34	1.8	8	0.9	7
Response coverage ratio[2] (percent)	63.0	(X)	58.0	(X)	73.5	(X)	68.9	(X)
Machinery	2.3	6	8.4	7	6.8	8	3.8	6
Response coverage ratio[2] (percent)	66.7	(X)	58.4	(X)	75.2	(X)	66.8	(X)
Cost of purchased communication services	0.8	6	1.2	10	3.4	5	0.9	13
Response coverage ratio[2] (percent)	79.6	(X)	55.7	(X)	73.7	(X)	77.5	(X)
Rental payments	3.0	5	3.4	10	21.9	5	3.6	5
Buildings and other structures	1.4	11	2.4	13	15.0	5	1.5	10
Machinery and equipment	1.6	4	1.0	11	6.9	6	2.1	3
Supplemental labor costs	27.1	1	25.5	3	84.2	4	26.4	2
Legal costs	15.5	1	16.1	2	52.7	4	13.6	2
Voluntary costs	11.6	2	9.4	5	31.5	4	12.7	2
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	101.3	9	51.5	7	144.5	4	51.7	5
New capital expenditures	(4.9)	20	3.2	9	4.2	11	4.2	4
Used capital expenditures	0.1	7	(0.7)	24	1.7	8	0.5	9
Retirements	9.5	2	(0.7)	15	3.9	11	3.0	8
End of year	96.8	10	54.7	7	146.5	4	53.4	5
Machinery and equipment:								
Beginning of year	226.7	3	156.6	5	361.8	3	84.3	4
New capital expenditures	13.3	13	10.5	12	49.0	12	10.6	3
Automobiles, trucks, etc., for highway use[3]	(0.3)	(A)	(0.3)	(A)	(0.8)	(A)	(0.4)	(A)
Computers and peripheral data processing equipment[3]	(0.2)	(A)	(0.4)	(A)	(10.2)	(A)	(0.2)	(A)
All other[3]	(11.6)	(A)	(7.5)	(A)	(26.5)	(A)	(8.9)	(A)
New machinery and equipment, n.s.k[4]	(1.2)	(A)	(2.3)	(A)	(11.5)	(A)	(1.1)	(A)
Used capital expenditures	1.1	6	(3.5)	49	8.1	12	1.5	6
Retirements	26.2	2	(4.9)	17	20.9	4	3.5	8
End of year	214.9	3	165.6	5	397.9	3	93.0	4
Total gross value of depreciable assets:								
Beginning of year	327.9	5	208.1	5	506.3	3	136.0	4
New capital expenditures	(18.3)	15	13.7	10	53.2	11	14.8	3
Used capital expenditures	1.2	6	(4.2)	41	9.7	11	2.0	4
Retirements	35.7	2	(5.6)	16	24.9	4	6.5	7
End of year	311.7	5	220.4	4	544.4	3	146.4	4
Depreciation charges during 1977	20.1	6	17.8	10	41.0	4	8.9	5
Buildings and other structures	4.2	10	3.1	10	6.6	5	1.9	5
Machinery and equipment	15.9	5	14.7	10	34.5	5	6.9	5

See footnotes at end of table.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977—Con.

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Circular knit fabric mills (SIC 2257)		Warp knit fabric mills (SIC 2258)		Knitting mills, n.e.c. (SIC 2259)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	62.1	1	1.6	6	(0.1)	59
Response coverage ratio[2] (percent)	64.3	(X)	55.4	(X)	60.6	(X)
Machinery	162.3	2	9.9	14	(0.2)	35
Response coverage ratio[2] (percent)	67.6	(X)	61.1	(X)	70.0	(X)
Cost of purchased communication services	92.4	1	42.9	1	(0.1)	57
Response coverage ratio[2] (percent)	67.1	(X)	63.4	(X)	67.0	(X)
Rental payments	26.1	11	7.3	7	0.6	11
Buildings and other structures	10.5	8	3.6	6	0.5	9
Machinery and equipment	(15.6)	20	3.6	10	(0.1)	28
Supplemental labor costs	67.4	5	31.3	2	3.4	8
Legal costs	37.6	6	17.6	2	2.2	2
Voluntary costs	29.9	5	13.7	4	(1.2)	26
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning or year	204.1	4	121.6	3	(4.8)	15
New capital expenditures	14.5	11	19.6	6	(0.2)	76
Used capital expenditures	(0.6)	22	0.1	1	(Z)	1
Retirements	10.2	5	4.5	4	(0.1)	28
End of year	209.0	4	136.8	3	(4.9)	15
Machinery and equipment:						
Beginning of year	882.3	2	313.8	3	12.0	12
New capital expenditures	98.5	14	36.2	9	(1.2)	19
Automobiles, trucks, etc., for highway use[3]	(0.9)	(A)	(0.3)	(A)	(0.1)	(A)
Computers and peripheral data processing equipment[3]	(0.3)	(A)	(0.2)	(A)	-	(X)
All other[3]	(77.5)	(A)	(20.9)	(A)	(0.8)	(A)
New machinery and equipment, n.s.k[4]	(19.8)	(A)	(14.8)	(A)	(0.3)	(A)
Used capital expenditures	(18.4)	23	3.6	13	(Z)	71
Retirements	70.9	7	21.1	5	(0.4)	20
End of year	928.3	2	332.5	3	12.8	11
Total gross value of depreciable assets:						
Beginning of year	1,086.5	1	435.4	3	16.8	11
New capital expenditures	113.0	12	55.8	8	(1.3)	25
Used capital expenditures	(19.0)	22	3.7	13	(Z)	71
Retirements	81.2	5	25.6	4	(0.5)	20
End of year	1,137.3	2	469.3	3	17.7	11
Depreciation charges during 1977	94.9	3	37.0	3	1.4	10
Buildings and other structures	8.8	4	5.3	4	(0.2)	27
Machinery and equipment	86.2	3	31.7	4	1.1	12

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2251, WOMEN'S HOSIERY, EXCEPT SOCKS												
Total	-	200	26.6	191.3	23.8	44.1	156.6	457.0	415.5	871.2	16.6	122.9
Establishments with an average of—												
1 to 4 employees	E9	43	0.1	0.4	0.1	0.1	0.3	(S)	0.8	1.5	(Z)	0.2
5 to 9 employees	E5	19	0.1	0.7	0.1	0.2	0.6	1.0	2.3	3.8	0.1	0.6
10 to 19 employees	E8	19	0.3	1.9	0.2	0.4	1.5	3.7	3.5	7.2	0.2	1.3
20 to 49 employees	-	36	1.1	7.0	1.0	1.7	5.6	11.6	15.4	26.7	0.5	2.7
50 to 99 employees	-	19	1.3	8.9	1.1	1.9	6.9	15.2	20.2	35.3	0.9	4.3
100 to 249 employees	-	29	4.4	27.6	4.0	7.1	23.1	46.0	63.0	109.8	2.9	12.5
250 to 499 employees	-	20	6.7	47.0	6.0	11.0	37.3	87.8	101.2	189.9	2.5	33.4
500 to 999 employees	-	12	(12.7)	(97.8)	(11.4)	(21.6)	(81.2)	(293.1)	(209.0)	(496.9)	(9.5)	(67.9)
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	64	0.4	2.7	0.4	0.7	2.2	5.0	5.2	10.2	0.2	1.7
INDUSTRY 2252, HOSIERY, N.E.C.												
Total	-	415	32.2	218.7	29.0	52.6	179.4	401.5	525.1	921.3	14.8	127.3
Establishments with an average of—												
1 to 4 employees	E8	68	0.1	0.8	0.1	0.2	0.6	1.4	2.0	3.4	(Z)	0.5
5 to 9 employees	E8	37	0.2	1.5	0.2	0.4	1.2	3.0	3.7	6.7	0.1	0.9
10 to 19 employees	E8	53	0.7	4.9	0.7	1.2	4.0	9.1	12.7	21.8	0.3	2.9
20 to 49 employees	E1	94	3.1	20.0	2.6	4.5	15.3	33.3	53.3	86.2	1.1	8.1
50 to 99 employees	-	62	4.4	27.8	3.9	5.8	22.1	46.9	68.8	114.5	2.6	15.1
100 to 249 employees	-	68	10.8	72.1	9.7	17.6	59.0	125.6	180.9	304.7	(10.7)	39.2
250 to 499 employees	-	28	9.5	66.3	8.7	16.2	55.9	133.5	151.1	284.3	(D)	44.9
500 to 999 employees	-	4	(3.3)	(25.3)	(3.0)	(5.8)	(21.3)	(48.8)	(52.6)	(99.7)	(D)	(15.8)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	133	1.0	6.5	0.9	1.6	5.2	12.2	15.9	28.1	0.4	4.2
INDUSTRY 2253, KNIT OUTERWEAR MILLS												
Total	E1	953	73.0	582.0	52.7	114.0	422.0	1 159.5	1 207.1	2 335.9	49.9	393.4
Establishments with an average of—												
1 to 4 employees	E4	146	0.2	2.9	0.2	0.3	2.4	1.2	5.1	11.4	0.1	1.4
5 to 9 employees	E3	101	0.7	6.0	0.6	1.1	4.2	10.4	20.9	31.0	0.4	5.9
10 to 19 employees	E2	155	2.1	17.6	1.8	3.3	11.6	37.8	75.7	111.5	1.2	13.8
20 to 49 employees	E3	263	8.5	63.3	7.6	13.8	50.5	114.6	96.7	210.8	5.7	23.8
50 to 99 employees	E2	126	8.8	70.3	7.8	14.1	53.3	116.7	124.2	237.8	6.7	29.3
100 to 249 employees	E1	104	16.1	126.2	14.1	25.7	95.2	210.1	220.2	423.9	12.3	62.6
250 to 499 employees	-	38	13.4	101.2	11.7	20.7	77.5	196.6	216.3	404.7	7.1	71.0
500 to 999 employees	E1	10	7.7	68.8	6.0	11.8	42.2	180.3	173.9	343.8	3.7	83.1
1,000 to 2,499 employees	-	9	(15.5)	(125.3)	(12.8)	(23.2)	(85.1)	(291.4)	(274.0)	(561.0)	(12.8)	(102.5)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	201	1.3	9.4	1.2	2.1	7.1	16.2	14.3	30.5	0.5	5.0
Industry 2253-11, Manufacturers												
Total	E1	557	52.5	408.2	45.5	82.7	298.3	819.0	668.1	1 470.4	28.9	279.5
Establishments with an average of—												
1 to 4 employees	E6	123	0.2	2.6	0.2	0.3	2.2	(S)	2.3	6.9	0.1	0.9
5 to 9 employees	E8	72	0.5	3.7	0.4	0.8	2.7	6.5	6.4	12.8	0.3	2.4
10 to 19 employees	E6	72	1.0	7.3	0.9	1.5	5.2	15.2	12.6	27.4	0.6	4.7
20 to 49 employees	E6	101	3.3	23.9	2.9	5.1	17.7	42.5	39.3	81.3	1.4	13.6
50 to 99 employees	E3	67	4.7	35.7	4.2	7.5	27.5	59.2	56.0	114.1	(26.5)	15.9
100 to 249 employees	E1	76	12.1	92.0	10.8	19.7	72.5	159.1	156.7	311.2	(D)	51.0
250 to 499 employees	-	29	(30.8)	(243.0)	(26.2)	(47.9)	(170.5)	(536.9)	(394.8)	(916.7)	(D)	(191.1)
500 to 999 employees	E1	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	162	1.0	7.3	0.9	1.6	5.4	12.8	12.3	25.1	0.4	4.6
Industry 2253-22, Converters												
Total	-	87	6.5	65.3	4.0	7.2	29.8	181.1	499.4	667.7	11.4	101.3
Establishments with an average of—												
1 to 4 employees	E1	15	(Z)	0.3	(Z)	(Z)	0.1	1.3	2.7	4.2	(Z)	0.6
5 to 9 employees	-	10	0.1	0.9	(Z)	0.1	0.3	1.7	11.5	13.0	0.1	2.3
10 to 19 employees	-	25	0.3	4.5	0.2	0.3	1.4	13.8	60.9	73.2	0.4	8.5
20 to 49 employees	-	16	0.5	5.5	0.3	0.6	2.7	23.3	47.9	71.0	(11.0)	6.9
50 to 99 employees	E2	9	0.7	6.9	0.3	0.7	1.5	16.6	56.8	71.7	(D)	9.9
100 to 249 employees	E1	6	0.8	9.4	0.4	0.8	2.9	17.2	51.8	67.5	(D)	9.0
250 to 499 employees	-	3	(4.0)	(37.8)	(2.8)	(4.7)	(20.7)	(107.1)	(267.8)	(367.1)	(D)	(64.1)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	11	(Z)	0.3	(Z)	(Z)	0.1	0.7	1.6	2.3	(Z)	0.3
Industry 2253-33, Contractors												
Total	E1	309	14.1	108.5	13.1	24.0	93.9	159.4	39.6	197.8	9.8	12.6
Establishments with an average of—												
1 to 4 employees	E6	8	(Z)	0.1	(Z)	(Z)	0.1	0.3	(Z)	0.3	(Z)	(Z)
5 to 9 employees	E1	19	0.1	1.4	0.1	0.2	1.1	2.3	3.1	5.2	(Z)	1.2
10 to 19 employees	E3	58	0.8	5.8	0.8	1.5	4.9	8.7	2.2	10.9	0.2	0.6
20 to 49 employees	E2	146	4.7	34.1	4.4	8.0	30.1	49.2	9.5	58.5	3.7	3.5
50 to 99 employees	E1	50	3.5	27.7	3.2	5.9	24.2	40.9	11.3	52.1	2.0	3.4
100 to 249 employees	-	22	3.2	24.8	2.8	5.2	19.8	33.7	11.7	45.1	1.8	2.7
250 to 499 employees	E1	6	1.8	14.6	1.7	3.1	13.6	24.3	1.7	25.7	1.5	1.3
Covered by administrative records[2]	E0	28	0.3	1.8	0.3	0.4	1.5	2.7	0.4	3.1	0.1	0.2

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2254, KNIT UNDERWEAR MILLS												
Total	-	**92**	**25.2**	**175.2**	**23.4**	**42.7**	**151.8**	**305.7**	**353.1**	**648.9**	**14.5**	**131.3**
Establishments with an average of—												
1 to 4 employees	E9	10	(Z)	(0.1)	(Z)	(Z)	(0.1)	(0.2)	(0.3)	(0.5)	(Z)	(0.1)
5 to 9 employees	E0	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E5	7	0.1	0.7	0.1	0.2	0.6	1.0	1.1	2.1	(Z)	0.4
20 to 49 employees	-	14	0.5	3.6	0.5	0.8	2.8	4.7	3.5	8.2	0.6	2.2
50 to 99 employees	-	15	1.2	7.3	1.1	2.0	6.2	10.9	13.6	24.6	0.2	4.0
100 to 249 employees	-	22	3.4	23.5	3.1	5.7	19.4	51.2	48.1	98.3	0.8	14.4
250 to 499 employees	-	9	3.2	19.4	2.9	5.3	17.2	46.2	32.8	76.0	1.7	17.2
500 to 999 employees	-	7	4.8	33.8	4.2	7.7	26.7	65.0	93.7	155.7	5.9	27.7
1,000 to 2,499 employees	-	6	(12.1)	(87.0)	(11.5)	(21.0)	(78.8)	(126.3)	(160.1)	(283.6)	(5.3)	(65.2)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	13	0.1	0.9	0.1	0.2	0.7	0.8	1.2	2.0	(Z)	0.4
INDUSTRY 2257, CIRCULAR KNIT FABRIC MILLS												
Total	-	**530**	**51.8**	**493.0**	**44.0**	**88.2**	**371.2**	**1 033.5**	**2 141.1**	**3 169.4**	**91.6**	**316.2**
Establishments with an average of—												
1 to 4 employees	E3	92	0.1	1.2	0.1	0.2	0.7	4.1	13.1	20.7	0.3	1.1
5 to 9 employees	E7	43	0.3	2.9	0.3	0.5	2.0	5.0	11.5	16.5	0.6	1.9
10 to 19 employees	E3	85	1.2	11.5	1.0	2.0	8.0	22.8	44.8	67.5	2.2	7.3
20 to 49 employees	E1	98	3.1	29.6	2.6	4.9	20.7	61.6	119.8	181.2	4.8	12.5
50 to 99 employees	-	68	5.0	44.6	4.3	8.5	34.0	83.0	176.0	258.5	10.4	21.1
100 to 249 employees	-	78	12.3	115.5	10.5	21.0	86.3	242.0	519.0	762.6	21.1	50.4
250 to 499 employees	-	49	16.6	156.9	14.1	28.4	120.6	317.5	788.4	1 099.2	(52.2)	117.1
500 to 999 employees	-	14	8.9	85.9	7.4	15.0	64.7	206.7	376.1	580.1	(D)	65.8
1,000 to 2,499 employees	-	3	4.4	44.9	3.8	7.6	34.1	90.9	92.4	183.2	(D)	29.0
Covered by administrative records[2]	E0	117	0.8	7.6	0.7	1.4	5.6	12.8	26.9	39.7	1.1	4.2
Industry 2257-11, Manufacturers												
Total	-	**334**	**37.6**	**359.1**	**31.9**	**63.8**	**269.9**	**767.8**	**1 734.1**	**2 498.9**	**61.1**	**253.5**
Establishments with an average of—												
1 to 4 employees	E7	79	0.1	0.7	0.1	0.1	0.6	4.2	5.3	10.5	0.2	0.5
5 to 9 employees	E7	34	0.2	2.2	0.2	0.4	1.6	4.1	8.6	12.6	0.5	1.4
10 to 19 employees	E6	41	0.5	5.1	0.5	0.9	3.7	9.9	20.0	29.7	1.3	3.3
20 to 49 employees	E1	39	1.2	10.2	1.0	1.9	7.5	20.3	57.3	77.7	(18.6)	5.6
50 to 99 employees	-	36	(11.1)	(104.1)	(9.5)	(18.7)	(77.9)	(212.7)	(539.5)	(754.4)	(D)	(63.4)
100 to 249 employees	-	52	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	-	38	(24.5)	(236.8)	(20.6)	(41.8)	(178.7)	(516.8)	(1 103.5)	(1 613.9)	(40.5)	(179.3)
500 to 999 employees	-	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	96	0.7	6.0	0.6	1.2	4.6	10.9	23.5	34.3	1.0	3.8
Industry 2257-22, Converters												
Total	-	**45**	**3.2**	**31.8**	**2.5**	**4.9**	**21.1**	**94.9**	**325.6**	**418.4**	**8.7**	**39.3**
Establishments with an average of—												
1 to 4 employees	-	5	(Z)	0.3	(Z)	(Z)	(Z)	(S)	7.8	9.5	(1.4)	0.6
5 to 9 employees	E8	4	(Z)	0.3	(Z)	(Z)	0.1	0.4	2.7	3.2	(D)	0.5
10 to 19 employees	E1	11	0.2	1.6	0.1	0.2	0.7	5.4	22.2	27.1	0.1	3.5
20 to 49 employees	-	11	0.3	4.4	0.2	0.4	1.9	14.7	52.8	67.1	(1.0)	4.8
50 to 99 employees	-	5	0.4	3.3	0.3	0.6	2.5	6.3	29.1	34.3	(D)	3.6
100 to 249 employees	E1	5	0.8	7.2	0.6	1.0	4.0	27.4	91.8	119.2	1.4	9.7
250 to 499 employees	-	4	1.5	14.7	1.2	2.5	11.9	41.5	119.3	157.9	(4.8)	16.5
500 to 999 employees	-	-	-	-	-	-	-	-	-	-	(D)	-
Covered by administrative records[2]	E0	7	0.1	0.5	(Z)	0.1	0.2	0.7	2.7	3.4	(Z)	0.3
Industry 2257-33, Contractors												
Total	-	**151**	**10.9**	**102.0**	**9.7**	**19.5**	**80.2**	**170.7**	**81.3**	**252.2**	**21.8**	**23.4**
Establishments with an average of—												
1 to 4 employees	E2	8	(Z)	0.2	(Z)	(Z)	0.1	0.5	0.1	0.6	(D)	(Z)
5 to 9 employees	E7	5	(Z)	0.4	(Z)	0.1	0.3	0.5	0.2	0.7	(D)	(Z)
10 to 19 employees	E1	33	0.5	4.9	0.4	0.9	3.6	7.6	2.6	10.6	0.8	0.5
20 to 49 employees	-	48	1.6	14.9	1.4	2.6	11.4	26.6	9.7	36.3	(2.9)	2.1
50 to 99 employees	-	27	(5.0)	(45.4)	(4.4)	(9.3)	(36.0)	(78.7)	(34.6)	(113.2)	(D)	(4.7)
100 to 249 employees	-	21	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	-	7	(3.8)	(36.3)	(3.4)	(6.7)	(28.8)	(56.9)	(34.1)	(90.7)	(18.1)	(16.0)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	14	0.1	1.1	0.1	0.2	0.8	1.3	0.7	2.0	0.2	0.1
INDUSTRY 2258, WARP KNIT FABRIC MILLS												
Total	-	**235**	**23.7**	**226.7**	**20.0**	**41.9**	**169.8**	**444.4**	**983.9**	**1 407.2**	**56.3**	**209.0**
Establishments with an average of—												
1 to 4 employees	E5	30	(Z)	0.4	(Z)	0.1	0.3	0.8	2.0	2.8	0.1	0.4
5 to 9 employees	E6	20	0.1	1.2	0.1	0.2	0.9	2.2	5.9	8.6	0.2	1.1
10 to 19 employees	E2	32	0.4	4.6	0.4	0.8	3.4	9.8	21.2	30.3	1.6	4.4
20 to 49 employees	E1	52	1.6	16.8	1.3	2.7	11.4	34.4	54.0	88.5	3.3	8.5
50 to 99 employees	-	34	2.4	23.5	2.1	4.3	17.2	44.2	78.6	122.3	4.5	15.4
100 to 249 employees	-	37	5.2	50.0	4.4	9.0	37.1	94.3	225.9	322.0	15.4	42.4
250 to 499 employees	-	22	7.8	73.9	6.5	13.9	56.8	145.8	345.3	486.7	18.9	81.4
500 to 999 employees	-	7	(6.0)	(56.4)	(5.1)	(11.0)	(42.7)	(112.8)	(231.1)	(346.0)	(12.5)	(55.4)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	41	0.4	3.3	0.3	0.6	2.4	6.2	15.5	21.7	0.7	3.2

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
Industry 2258-11, Manufacturers												
Total	-	**157**	**15.7**	**154.4**	**13.1**	**27.9**	**114.0**	**308.3**	**694.8**	**1 002.6**	**29.7**	**180.6**
Establishments with an average of—												
1 to 4 employees	E6	24	(Z)	0.2	(Z)	(Z)	0.2	0.3	0.9	1.3	(Z)	0.2
5 to 9 employees	E8	13	0.1	0.8	0.1	0.1	0.6	1.6	4.3	5.9	0.2	0.9
10 to 19 employees	E2	27	0.4	3.9	0.3	0.7	2.9	8.5	16.3	24.1	1.4	3.8
20 to 49 employees	E1	31	1.0	9.9	0.8	1.7	7.2	18.2	35.5	53.3	2.6	6.9
50 to 99 employees	-	19	1.3	12.9	1.1	2.2	9.6	24.9	53.7	78.9	2.9	9.8
100 to 249 employees	-	22	3.2	31.4	2.6	5.5	23.0	57.9	157.8	218.2	3.5	32.3
250 to 499 employees	-	15	5.4	52.1	4.4	9.5	39.8	98.6	247.3	344.5	13.9	61.0
500 to 999 employees	-	5	(4.3)	(43.2)	(3.8)	(8.2)	(30.7)	(98.3)	(179.0)	(276.4)	(5.2)	(45.7)
Covered by administrative records[2]	E0	31	0.3	2.7	0.2	0.5	2.0	5.2	13.5	18.7	0.5	2.7
Industry 2258-22, Converters												
Total	-	**22**	**2.7**	**25.8**	**2.2**	**4.7**	**17.8**	**61.6**	**231.8**	**292.9**	**12.0**	**42.7**
Establishments with an average of—												
1 to 4 employees	E4	3	(Z)	(0.2)	(Z)	(Z)	(0.1)	(0.6)	(1.7)	(2.7)	(Z)	(0.4)
5 to 9 employees	E3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E2	3	(Z)	0.5	(Z)	0.1	0.4	1.1	4.8	5.9	(D)	0.5
20 to 49 employees	E1	4	0.1	1.6	0.1	0.2	0.2	7.7	16.2	24.4	(D)	1.2
50 to 99 employees	-	4	0.4	3.3	0.3	0.6	1.7	7.5	22.5	29.3	(D)	4.6
100 to 249 employees	-	2	0.3	2.7	0.3	0.5	2.0	11.6	54.6	65.5	(D)	7.3
250 to 499 employees	-	3	(1.9)	(17.4)	(1.6)	(3.3)	(13.4)	(33.1)	(132.0)	(165.1)	(D)	(28.7)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	4	(Z)	0.3	(Z)	(Z)	0.2	0.6	1.8	2.4	0.1	0.4
Industry 2258-33, Contractors												
Total	-	**56**	**5.2**	**46.5**	**4.7**	**9.3**	**38.1**	**74.5**	**37.3**	**111.7**	**14.7**	**5.7**
Establishments with an average of—												
1 to 4 employees	E2	3	(Z)	(0.3)	(Z)	(0.1)	(0.3)	(0.4)	(1.0)	(1.4)	(Z)	(0.1)
5 to 9 employees	E1	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E0	2	(Z)	0.2	(Z)	(Z)	0.2	0.2	0.2	0.4	(D)	(Z)
20 to 49 employees	-	17	0.5	5.3	0.4	0.8	4.1	8.5	2.4	10.9	(D)	0.5
50 to 99 employees	-	11	0.8	7.3	0.7	1.5	5.9	11.7	2.3	14.1	(D)	0.9
100 to 249 employees	-	13	1.7	15.8	1.6	3.1	12.1	24.8	13.5	38.2	(D)	2.9
250 to 499 employees	-	4	(2.1)	(17.5)	(2.0)	(3.9)	(15.5)	(28.8)	(18.0)	(46.7)	(D)	(1.3)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	6	(Z)	0.4	(Z)	0.1	0.3	0.4	0.3	0.7	0.1	(Z)
INDUSTRY 2259, KNITTING MILLS, N.E.C.												
Total	**E3**	**192**	**3.4**	**24.1**	**3.1**	**6.0**	**19.0**	**40.9**	**54.8**	**95.7**	**1.5**	**15.2**
Establishments with an average of—												
1 to 4 employees	E8	70	0.1	0.8	0.1	0.2	0.7	1.4	2.0	3.5	(Z)	0.5
5 to 9 employees	E7	40	0.3	1.7	0.3	0.5	1.4	3.0	4.6	7.5	(Z)	1.2
10 to 19 employees	E6	35	0.5	3.2	0.4	0.9	2.5	5.6	7.2	12.8	(0.1)	2.0
20 to 49 employees	E4	32	1.0	6.9	0.9	1.8	5.2	12.9	15.1	27.9	(D)	3.9
50 to 99 employees	E3	9	0.6	4.0	0.5	1.0	3.3	6.4	5.8	12.1	(1.4)	2.6
100 to 249 employees	-	5	(0.9)	(7.4)	(0.8)	(1.6)	(6.0)	(11.4)	(20.2)	(31.8)	(D)	(4.9)
250 to 499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	110	0.8	4.8	0.7	1.4	3.9	7.8	10.6	18.4	0.1	3.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2251	**Women's hosiery, except socks:**										
	Entire industry	200	26.6	191.3	23.8	44.1	156.6	457.0	415.5	871.2	16.6
	Establishments with 75 percent specialization or more	177	23.1	164.5	20.5	38.0	134.1	412.2	327.5	734.3	15.3
22511	Women's finished full-fashioned hosiery:										
	Establishments with this product class primary	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22513	Women's finished seamless hosiery:										
	Establishments with this product class primary	74	22.6	164.6	20.3	37.8	135.0	412.5	361.8	772.1	14.6
	Establishments with 75 percent specialization or more in class	64	19.2	139.2	17.1	31.9	113.6	368.8	274.1	637.8	13.4
22514	Women's gray full-fashioned hosiery:										
	Establishments with this product class primary	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22515	Women's gray seamless hosiery:										
	Establishments with this product class primary	29	2.0	13.8	1.8	3.2	11.2	22.0	33.1	54.9	1.2
	Establishments with 75 percent specialization or more in class	28	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2252	**Hosiery, n.e.c.:**										
	Entire industry	415	32.2	218.7	29.0	52.6	179.4	401.5	525.1	921.3	14.8
	Establishments with 75 percent specialization or more	393	30.9	210.2	27.9	50.8	173.3	390.4	502.0	887.5	14.3
22522	Men's finished seamless hosiery:										
	Establishments with this product class primary	111	15.7	108.9	14.2	25.4	89.3	211.8	290.4	500.3	6.9
	Establishments with 75 percent specialization or more in class	81	10.8	74.6	9.8	17.4	60.8	143.3	212.6	356.1	5.0
22523	Other finished seamless hosiery:										
	Establishments with this product class primary	69	10.9	70.9	9.8	18.1	58.3	129.1	132.9	258.6	6.1
	Establishments with 75 percent specialization or more in class	42	6.4	41.2	5.8	10.5	34.4	74.6	64.7	137.1	3.4
22524	Seamless gray hosiery, except women's full and knee length:										
	Establishments with this product class primary	51	3.0	22.1	2.7	5.1	19.0	31.5	63.5	94.9	1.0
	Establishments with 75 percent specialization or more in class	49	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2253	**Knit outerwear mills:**										
	Entire industry	953	73.0	582.0	62.7	114.0	422.0	1 159.5	1 207.1	2 335.9	49.9
	Establishments with 75 percent specialization or more	881	62.9	498.8	54.1	98.2	361.8	989.4	948.6	1 909.4	39.9
22531	Sweaters, knit jackets, and jerseys:										
	Establishments with this product class primary	146	16.9	141.7	13.6	25.1	94.0	279.2	363.7	626.6	10.5
	Establishments with 75 percent specialization or more in class	129	12.0	100.1	10.1	18.6	70.1	188.8	281.4	459.2	8.3
22532	Knit outerwear sport shirts:										
	Establishments with this product class primary	48	15.2	112.1	13.4	24.3	84.6	265.9	207.6	464.1	6.9
	Establishments with 75 percent specialization or more in class	38	11.0	78.5	10.0	17.5	60.6	189.5	154.4	336.5	4.6
22533	Other knit outerwear products:										
	Establishments with this product class primary	125	20.7	174.2	17.3	31.2	118.1	371.3	490.2	853.2	20.1
	Establishments with 75 percent specialization or more in class	101	11.7	92.7	10.1	17.7	65.8	177.5	179.7	354.0	10.5
22539	Commission knitting and/or dyeing of knit outerwear:										
	Establishments with this product class primary	213	10.6	82.6	9.9	18.1	71.3	123.9	25.9	148.8	7.1
	Establishments with 75 percent specialization or more in class	210	10.5	81.5	9.8	17.9	70.3	122.0	25.2	146.2	(D)
2254	**Knit underwear mills:**										
	Entire industry	92	25.2	175.2	23.4	42.7	151.8	305.7	353.1	648.9	14.5
	Establishments with 75 percent specialization or more	70	16.8	117.4	15.6	28.3	101.7	216.7	233.8	444.6	9.2
22541	Men's and boys' knit underwear and nightwear:										
	Establishments with this product class primary	38	18.8	134.5	17.5	32.3	117.7	237.5	294.0	523.6	11.9
	Establishments with 75 percent specialization or more in class	25	11.0	81.6	10.3	19.0	71.8	156.4	179.9	332.8	6.8
22542	Women's and children's knit underwear:										
	Establishments with this product class primary	18	4.3	25.6	3.9	6.6	21.0	43.3	37.7	78.7	2.3
	Establishments with 75 percent specialization or more in class	13	1.8	12.4	1.6	2.8	9.5	21.0	18.2	39.3	(D)
22543	Women's and children's knit nightwear:										
	Establishments with this product class primary	7	1.1	7.4	1.0	2.0	6.4	13.8	11.3	25.3	0.1
	Establishments with 75 percent specialization or more in class	7	1.1	7.4	1.0	2.0	6.4	13.8	11.3	25.3	0.1
2257	**Circular knit fabric mills:**										
	Entire industry	530	51.8	493.0	44.0	88.2	371.2	1 033.5	2 141.1	3 169.4	91.6
	Establishments with 75 percent specialization or more	474	45.3	427.5	38.6	77.6	322.1	890.3	1 811.3	2 692.6	79.8
22571	Circular knit gray fabrics, except hosiery:										
	Establishments with this product class primary	36	4.2	40.0	3.7	7.6	31.6	88.4	228.5	314.6	9.4
	Establishments with 75 percent specialization or more in class	33	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22572	Circular knit underwear and nightwear finished fabrics:										
	Establishments with this product class primary	10	2.3	20.5	1.8	3.5	15.1	29.5	75.8	105.4	3.3
	Establishments with 75 percent specialization or more in class	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22574	Circular knit high pile finished fabrics:										
	Establishments with this product class primary	11	5.1	52.4	4.3	8.7	39.2	114.4	133.9	248.6	(D)
	Establishments with 75 percent specialization or more in class	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22575	Single circular knit outerwear finished fabrics:										
	Establishments with this product class primary	43	8.7	79.4	7.4	14.7	60.6	188.8	478.7	664.6	11.2
	Establishments with 75 percent specialization or more in class	36	6.2	56.5	5.3	10.3	41.5	103.8	349.3	452.1	9.3
22577	Double circular knit outerwear finished fabrics:										
	Establishments with this product class primary	83	12.6	123.6	10.4	20.8	88.5	285.7	794.2	1 074.4	20.5
	Establishments with 75 percent specialization or more in class	68	9.3	90.9	7.6	15.1	64.4	206.3	550.8	753.1	15.2
22578	Other circular knit finished fabrics:										
	Establishments with this product class primary	27	4.0	38.2	3.4	6.8	28.4	76.0	155.8	232.7	8.9
	Establishments with 75 percent specialization or more in class	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22579	Commission knitting and/or dyeing of circular knit fabrics:										
	Establishments with this product class primary	108	10.1	94.8	8.9	18.2	74.6	160.8	96.5	257.2	21.5
	Establishments with 75 percent specialization or more in class	103	9.7	91.5	8.6	17.5	72.3	153.1	85.5	238.3	(D)

See footnotes at end of table.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977—Con.

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2258	**Warp knit fabric mills:**										
	Entire industry	235	23.7	226.7	20.0	41.9	169.8	444.4	963.9	1 407.2	56.3
	Establishments with 75 percent specialization or more	209	21.1	204.5	17.7	37.3	151.8	404.6	871.3	1 277.3	54.6
22581	Warp knit gray fabrics, except hosiery:										
	Establishments with this product class primary	34	5.4	48.3	4.7	9.8	39.2	78.6	278.6	359.3	16.1
	Establishments with 75 percent specialization or more in class	30	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22582	Warp knit underwear and nightwear finished fabrics:										
	Establishments with this product class primary	30	6.3	64.2	5.0	10.8	45.1	145.1	271.0	414.2	9.6
	Establishments with 75 percent specialization or more in class	21	2.8	27.0	2.3	4.9	19.8	62.3	118.9	181.9	5.4
22583	Warp knit outerwear finished fabrics:										
	Establishments with this product class primary	28	3.3	31.1	2.7	5.7	22.9	66.1	169.6	235.1	11.5
	Establishments with 75 percent specialization or more in class	23	2.0	18.7	1.6	3.2	12.7	41.5	105.3	145.4	6.5
22584	Other warp knit finished fabrics:										
	Establishments with this product class primary	32	2.6	26.6	2.1	4.7	18.9	55.5	134.7	189.6	3.2
	Establishments with 75 percent specialization or more in class	28	1.7	16.5	1.4	3.1	12.3	22.6	71.4	94.2	(D)
22589	Commission knitting and/or dyeing of warp knit fabrics:										
	Establishments with this product class primary	43	5.0	44.5	4.4	8.7	35.2	71.9	53.5	125.1	13.9
	Establishments with 75 percent specialization or more in class	42	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2259	**Knitting mills, n.e.c.:**										
	Entire industry	192	3.4	24.1	3.1	6.0	19.0	40.9	54.8	95.7	1.5
	Establishments with 75 percent specialization or more	182	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. **Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967**

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product† specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2251	Women's hosiery, except socks.....1977..	871.2	775.2	72.9	23.1	[1]91	819.1	775.2	43.9	[1]95
	1972..	984.7	875.7	59.2	49.8	[1]94	899.0	875.7	23.3	[1]97
	1967..	835.0	768.0	27.7	39.3	[1]97	805.8	768.0	37.8	[1]95
2252	Hosiery, n.e.c.....1977..	921.3	858.3	31.8	31.1	[1]96	893.6	858.3	35.3	[1]96
	1972..	600.6	550.4	26.6	23.6	[1]95	588.0	550.4	37.6	[1]94
	1967..	550.1	433.2	48.7	68.2	[1]90	454.5	433.2	21.3	[1]95
2253	Knit outerwear mills.....1977..	2,335.9	2,035.5	223.4	77.1	90	[2]3,832.0	2,035.5	[2]1,796.5	53
	1972..	1,703.8	1,510.3	122.6	70.9	92	[2]2,393.6	1,510.3	[2]883.3	62
	1967..	1,288.0	1,108.0	83.9	96.1	93	[2]1,696.8	1,108.0	[2]588.8	65
2254	Knit underwear mills.....1977..	648.9	497.0	127.0	25.0	80	579.5	497.0	82.5	86
	1972..	544.6	450.4	50.6	43.6	90	481.5	450.4	31.1	94
	1967..	445.3	362.5	52.2	30.6	85	[3]396.7	[3]362.5	[3]34.2	[3]91
2257	Circular knit fabric mills.....1977..	3,169.4	2,730.8	317.4	121.2	90	3,111.2	2,730.8	380.4	88
	1972..	2,808.8	2,513.5	194.2	101.1	93	2,770.2	2,513.5	256.7	91
2258	Warp knit fabric mills.....1977..	1,407.2	1,297.9	95.2	14.1	93	1,568.4	1,297.9	270.5	83
	1972..	987.7	879.4	95.7	12.6	90	928.6	879.4	49.2	95
2259	Knitting mills, n.e.c.....1977..	95.7	91.3	2.4	2.0	97	112.9	91.3	21.6	81
	1972..	73.1	67.7	4.8	.6	93	87.1	67.7	19.4	78
	1967..	38.8	31.3	1.3	6.2	96	[3]35.7	[3]31.3	[3]4.4	[3]88

n.e.c. Not elsewhere classified.
[1]Ratios are affected by duplication in value of shipments.
[2]Includes product of cut-and-sew shops (major group 23) which are primary to industries 2321, 2329, 2331, 2339, 2361, and 2369.
[3]Revised to reflect only shipments of knit products made in knitting mills. Separate data for knit products made in cut-and-sew plants were not collected in 1972.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Women's hosiery, except socks (SIC 2251)	Hosiery, n.e.c. (SIC 2252)	Knit outerwear mills (SIC 2253)	Knit underwear mills (SIC 2254)	Circular knit fabric mills (SIC 2257)	Warp knit fabric mills (SIC 2258)	Knitting mills, n.e.c. (SIC 2259)	Other industries
	Total	(X)	871.2	921.3	2,335.9	648.9	3,169.4	1,407.2	95.7	(X)
	Primary products	(X)	775.2	858.3	2,035.5	497.0	2,730.8	1,297.9	91.3	(X)
	Secondary products	(X)	72.9	31.8	223.4	127.0	317.4	95.2	2.4	(X)
	Miscellaneous receipts	(X)	23.1	31.1	77.1	25.0	121.2	14.1	2.0	(X)
2251-	Women's hosiery, except socks	819.1	775.2	(D)	(D)	-	-	-	-	-
22511	Women's finished full-fashioned hosiery	(D)	(D)	-	-	-	-	-	-	-
22513	Women's finished seamless hosiery	722.4	682.7	(D)	(D)	-	-	-	-	-
22514	Women's gray full-fashioned hosiery	(D)	(D)	-	-	-	-	-	-	-
22515	Women's gray seamless hosiery	58.4	54.4	4.0	-	-	-	-	-	-
22510	Women's hosiery, except socks, n.s.k	37.3	(D)	-	(D)	-	-	-	-	-
2252-	Hosiery, n.e.c	893.6	(D)	858.3	(D)	-	(D)	-	(D)	(D)
22522	Men's finished seamless hosiery	464.6	16.2	448.3	(D)	-	-	-	-	(D)
22523	Other finished seamless hosiery	274.3	11.1	255.5	(D)	-	(D)	-	(D)	(D)
22524	Seamless gray hosiery, except women's full and knee length	93.5	(D)	(D)	-	-	-	-	-	-
22520	Hosiery, n.e.c., n.s.k	61.2	-	(D)	-	-	-	-	(D)	-
2253- 2321- pt. 2329- pt. 2331- pt. 2339- pt. 2361- pt. 2369- pt.	Knit outerwear	3,832.0	(D)	1.9	2,035.5	82.7	9.0	-	(D)	1,700.2
22531- 23292 pt. 23397 pt. 23690 pt.	Sweaters, knit jackets, and jerseys	766.7	-	-	552.5	(D)	-	-	-	(D)
22532 23212 pt. 23312 pt. 23612 pt.	Knit outerwear sport shirts	2,002.3	(D)	(D)	449.9	(D)	(D)	-	-	1,485.5
22533	Other knit outerwear products	689.7	(D)	(D)	669.4	14.3	(D)	-	(D)	(D)
22539	Commission knitting and/or dyeing of knit outerwear	154.2	-	-	145.7	(D)	(D)	-	-	(D)
22530	Knit outerwear, n.s.k	219.1	-	1.1	217.9	-	-	-	-	-
2254-	Knit underwear and nightwear	579.5	(D)	-	15.5	497.0	(D)	(D)	-	(D)
22541	Men's and boys' knit underwear and nightwear	431.0	(D)	-	(D)	382.9	(D)	(D)	-	-
22542	Women's and children's knit underwear	95.4	(D)	-	(D)	(D)	-	(D)	-	(D)
22543	Women's and children's knit nightwear	50.0	-	-	(D)	(D)	(D)	(D)	-	-
22540	Knit underwear and nightwear, n.s.k	3.1	-	-	-	3.1	-	-	-	-
2257-	Circular knit fabrics	3,111.2	-	(D)	77.4	(D)	2,730.8	65.3	(D)	194.1
22571	Circular knit gray fabrics, except hosiery	343.5	-	(D)	(D)	(D)	312.7	(D)	(D)	(D)
22572	Circular knit underwear and nightwear finished fabrics	139.5	-	-	(D)	35.9	(D)	-	-	1.3
22574	Circular knit high pile finished fabrics	202.3	-	-	-	-	(D)	-	-	(D)
22575	Single circular knit outerwear finished fabrics	564.6	-	-	26.0	-	538.6	-	-	-
22577	Double circular knit outerwear finished fabrics	1,050.8	-	(D)	(D)	-	953.1	(D)	-	32.7
22578	Other circular knit finished fabrics	364.5	-	(D)	(D)	-	236.5	(D)	(D)	81.2
22579	Commission knitting and/or dyeing of circular knit fabrics	286.1	-	-	(D)	(D)	263.9	(D)	(D)	(D)
22570	Circular knit fabrics, n.s.k	159.9	-	-	-	-	135.7	-	-	24.2
2258-	Warp knit fabrics	1,568.4	-	-	(D)	(D)	212.0	1,297.9	(D)	47.1
22581	Warp knit gray fabrics, except hosiery	363.3	-	-	-	(D)	(D)	285.7	-	(D)
22582	Warp knit underwear and nightwear finished fabrics	405.2	-	-	(D)	(D)	(D)	375.5	-	(D)
22583	Warp knit outerwear finished fabrics	328.2	-	-	-	-	(D)	233.5	-	(D)
22584	Other warp knit finished fabrics	302.9	-	-	-	-	(D)	238.1	(D)	40.0
22589	Commission knitting and/or dyeing warp knit fabrics	138.7	-	-	-	(D)	(D)	134.9	-	(D)
22580	Warp knit fabrics, n.s.k	30.1	-	-	-	-	-	30.1	-	-
22590	Knitting mill products, n.e.c	112.9	(D)	(D)	11.7	(D)	(D)	-	91.3	5.7
	Other shipments by 4-digit product group:									
2221-	Manmade fiber and silk broad woven fabrics	(X)	-	-	-	-	(D)	(D)	-	(X)
2262-	Finished manmade fiber and silk broad woven fabrics	(X)	-	-	-	-	(D)	(D)	-	(X)
2269-	Finished textiles, n.e.c	(X)	-	-	-	-	(D)	(D)	-	(X)
2279-	Carpets, rugs, and mats, n.e.c	(X)	-	-	-	-	(D)	-	-	(X)
2281-	Yarn, except wool	(X)	-	-	-	-	(D)	-	-	(X)
2282-	Textured, thrown, and rewound yarn	(X)	(D)	-	(D)	-	(D)	-	-	(X)
2311-	Men's and boys' suits and coats	(X)	-	-	(D)	-	-	-	-	(X)
2327-	Men's and boys' separate trousers	(X)	-	-	(D)	-	-	-	-	(X)
2331-	Women's and misses' blouses and waists	(X)	(D)	-	(D)	-	-	-	-	(X)
2337-	Women's and misses' suits and coats	(X)	-	-	(D)	-	-	-	-	(X)
2339-	Women's and misses' outerwear, n.e.c	(X)	-	-	(D)	-	-	-	-	(X)
2352-	Hats and caps, except millinery	(X)	-	(D)	-	-	-	-	-	(X)
2361-	Children's dresses and blouses	(X)	-	-	(D)	-	-	-	-	(X)

See footnotes at end of table.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977 — Con.

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Women's hosiery, except socks (SIC 2251)	Hosiery, n.e.c. (SIC 2252)	Knit outer wear mills (SIC 2253)	Knit underwear mills (SIC 2254)	Circular knit fabric mills (SIC 2257)	Warp knit fabric mills (SIC 2258)	Knitting mills, n.e.c. (SIC 2259)	Other industries
	Miscellaneous receipts:									
93000 00	Contract work	(X)	9.8	9.5	7.5	17.3	34.7	11.0	(D)	(X)
99980 98	Other miscellaneous receipts	(X)	.2	.4	2.9	2.2	3.3	1.9	(D)	(X)
99989 00	Resales	(X)	13.0	21.2	66.7	5.4	83.2	1.3	.1	(X)

1977 product code	Industry and miscellaneous receipts	Other industries	1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:			Other industries with over $5 million shipments of primary products--Con.	
2257-	2221 Weaving mills, manmade fiber and silk	57.6	2258-	2221 Weaving mills, manmade fiber and silk	13.6
	2231 Weaving and finishing mills, wool	(D)		2241 Narrow fabric mills	8.4
	2262 Finishing mills, manmade fiber and silk	(D)		2262 Finishing mills, manmade fiber and silk	(D)
	2269 Finishing plants, n.e.c	(D)			
	2279 Carpets and rugs, n.e.c	(D)			

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	WOMEN'S HOSIERY, EXCEPT SOCKS						
2251- --	Total		(NA)	(X)	819.1	(X)	899.0
22511 --	Women's finished full-fashioned hosiery	1,000 doz. prs.	(NA)	(D)	(D)	848	8.1
22511 11	Women's full-fashioned hosiery		(NA)	(D)	(D)	848	8.1
22513 --	Women's finished seamless hosiery, full-length and knee-length		(NA)	(NA)	722.4	(NA)	759.5
22513 11	Misses' finished knee-length socks, all fibers, including campus, bermudas, etc., sizes 8-11		10	2,124	14.3	6,574	16.4
	Women's and misses' finished seamless stockings		(NA)	(NA)	178.6	(NA)	143.2
22513 17	Knee-length stretch and nonstretch		47	28,405	100.0	4,483	18.4
	Full-length, nonfancy		(NA)	(D)	(D)	(NA)	121.7
22513 21	Under 30-denier, stretch and nonstretch		32	8,290	49.6	15,603	91.3
22513 36	30-denier and over, except support		(NA)	(D)	(D)	3,151	25.5
22513 37	Support		7	1,120	10.0		
22513 38	All other full-length, nonfancy		4	2,457	15.6	(S)	4.9
22513 39	All other full-length stockings, including fancy stockings 370-needle and finer, and stockings knit on less than 370 needle		(NA)	(D)	(D)	469	3.1
	Panty hose		(NA)	(D)	(D)	89,194	598.2
	Nonfancy, under 30-denier, sheer stretch		(NA)	49,981	402.5	77,559	506.1
22513 51	Reciprocated heel		12	8,312	64.9	13,888	108.5
22513 53	Nonreciprocated heel		46	41,669	337.6	63,671	397.6
	Nonfancy, 30-denier and over, opaque stretch		(NA)	8,277	107.6	9,170	82.1
22513 55	Reciprocated heel		11	3,600	19.3	5,976	55.0
22513 57	Nonreciprocated heel		20	4,661	88.3	3,194	27.1
22513 59	Miscellaneous sheers, including fancies, sewed-on legs, waist-connected legs, replaceable legs, nonstretch, etc., and waist-high knit on less than 370 needle		(NA)	(D)	(D)	2,465	10.0
22513 00	Women's and misses' finished seamless hosiery, full-length and knee-length, n.s.k		(NA)	(X)	3.1	(X)	1.7
22514 --	Women's full-fashioned hosiery shipped in the greige		(NA)	(D)	(D)	(S)	9.6
22514 15	Women's and misses' full-fashioned hosiery shipped in the greige		(NA)	(D)	(D)	(S)	9.6
22515 --	Women's seamless full-length and knee-length hosiery shipped in the greige		(NA)	(NA)	58.4	29,507	101.1
22515 13	Women's and misses' full-length and knee-length hosiery shipped in the greige		21	12,809	30.9	29,472	99.9
22515 17	Panty hose shipped in the greige		14	*4,501	22.4		
22515 00	Women's and misses' seamless full-length and knee-length hosiery, n.s.k	1,000 doz. prs.	(NA)	(X)	5.1	35	1.2
22510 00	Women's full-length and knee-length hosiery, seamless and full-fashioned, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	27.1	(X)	14.7
22510 02	Women's full-length and knee-length hosiery, seamless and full-fashioned, n.s.k., typically for establishments with less than 5 employees (see note		(NA)	(X)	10.2	(X)	6.0
	HOSIERY, N.E.C.						
2252- --	Total[3]	1,000 doz. prs.	(NA)	185,076	893.6	148,910	588.0
22522 --	Men's finished seamless hosiery		(NA)	80,850	464.6	58,080	285.9
	Men's finished seamless hosiery (sizes 10 and up):						
	Anklets, including slack socks, crew socks, athletic socks, etc.:						
22522 23	Cotton and/or wool		79	*25,130	136.3	20,630	83.5
22522 25	Manmade fibers		92	38,090	222.0	24,800	134.7
22522 34	Midcalf, including half-hose		26	7,359	43.9	[4]7,928	43.0
22522 89	All other, including foot socks (knee, bermuda, campus, etc.)		25	9,680	59.1	3,320	17.8
22522 00	Men's finished seamless hosiery, n.s.k		5	[5]591	3.3	[5]1,402	6.9
22523 --	All other finished seamless hosiery		(NA)	64,358	274.3	54,076	188.7
	Women's, misses', girls', and boys' anklets, including slack socks, crew socks, athletic socks, etc.:						
22523 11	Cotton and/or wool		39	**8,670	37.4	9,556	26.5
22523 17	Manmade fibers		54	21,835	83.8	10,795	37.8
	Girls' and boys':						
	Knee, including bermudas, campus, etc.:						
22523 21	Cotton and/or wool		18	**2,246	10.1	3,148	11.5
22523 27	Manmade fibers		30	10,153	51.4	8,483	37.3
22523 31	All other, including foot socks, stockings, and waist-highs	1,000 doz. prs.	7	1,517	9.6	[4]3,428	15.3

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	HOSIERY, N.E.C.--Con.						
	All other finished seamless hosiery--Con.						
	Infants' and children's finished hosiery (sizes 3-8-1/2):						
	Anklets, including slack socks, crew socks, athletic socks, etc.:						
22523 51	Cotton and/or wool	1,000 doz. prs.	23	**6,754	26.9	4,913	12.3
22523 57	Manmade fibers		36	10,611	42.5	7,836	24.0
22523 61	Knee, including bermudas, campus, etc		8	755	4.1	1,833	6.9
22523 81	All other, including foot socks, stockings, and waist-highs		5	620	3.2	3,511	15.0
22523 00	All other finished seamless hosiery, n.s.k		7	[5]1,197	5.3	[5]573	2.1
22524 --	Seamless hosiery, except women's full length and knee length, shipped in the greige		(NA)	27,194	93.5	27,940	78.6
22524 25	Men's, all types (sizes 10 and up)		45	*16,073	62.0	17,184	55.3
22524 41	Women's, misses', girls', and boys'		20	5,773	17.4	[4]4,362	10.9
22524 51	Children's and infants		16	5,144	13.4	[4]6,181	11.9
22524 00	Seamless hosiery, except women's full length and knee length, shipped in the greige, n.s.k	1,000 doz.prs.	2	[5]204	.7	213	.5
22520 00	Hosiery, except women's full length and knee length, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	[5]6,855	33.1	[5]6,053	23.9
22520 02	Hosiery, except women's full length and knee length, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	[5]5,819	28.1	[5]2,761	10.9
2253- --	KNIT OUTERWEAR MILLS						
2321 pt. 2329 pt. 2331 pt. 2339 pt. 2361 pt. 2369 pt.	Total	.....	(NA)	(X)	3,832.0	(X)	2,393.6
22531 -- 23292 -- 23397 -- 23690 --	Sweaters, knit jackets, and jerseys	1,000 dozens..	(NA)	12,000	766.7	12,638	609.2
	As reported in census of manufactures		(NA)	12,000	766.7	12,638	609.2
22531 35	Made in knitting mills		149	9,143	555.5	9,703	473.8
	Made in cut-and-sew shops		(NA)	2,857	211.2	2,834	135.4
23292 60	Men's and boys'		12	324	21.6	1,125	57.9
23397 30	Women's, misses', and juniors'		35	2,353	180.3	1,236	63.9
23690 70	Girls, children's, and infants		6	**180	9.3	473	13.6
22531 00	Sweaters, jackets, jerseys, pullovers, and sacques, n.s.k.		(NA)	(X)	(X)	101	4.9
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	12,134	797.6	12,466	610.0
22532 -- 23212 pt. 23312 pt. 23612 pt.	Knit outerwear sport shirts, including sweat shirts		(NA)	63,775	2,002.3	40,009	1,029.9
	As reported in census of manufactures		(NA)	63,775	2,002.3	40,009	1,029.9
22532 25	Made in knitting mills		67	18,574	518.1	15,818	342.8
	Made in cut-and-sew shops		(NA)	45,201	1,484.2	24,135	687.1
23212 00	Men's and boys'		(NA)	27,821	809.0	12,651	382.7
23312 00	Women's, misses', and juniors'		205	9,662	499.1	4,240	189.1
23612 00	Girls, children's, and infants		(NA)	7,718	176.1	7,244	115.3
22532 00	Knit outerwear sport shirts, n.s.k		-	(X)	(X)	56	1.2
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	63,996	1,968.6	40,778	1,030.5
22533 --	All other knit outerwear		(NA)	14,822	689.7	8,567	445.0
	Women's, misses', and juniors'		(NA)	8,253	452.3	5,216	348.5
22533 11	Dresses		17	751	78.6	404	73.2
22533 13	Suits		7	(D)	(D)	472	96.7
22533 15	Slacks, jeans, and dungarees		12	758	65.2	1,117	59.0
22533 16	Swimwear		2	(D)	(D)	115	7.5
22533 17	Blouses and shirts, other than outerwear sport shirts		27	*1,203	54.0	364	20.4
22533 19	Other, n.e.c		38	5,192	154.0	2,744	91.7
	Men's and boys'		(NA)	(D)	(D)	2,086	50.4
22533 33	Trousers		2	(D)	(D)	241	9.2
22533 35	Shirts, other than outerwear sport shirts		12	1,034	34.5	610	15.4
22533 38	Other, n.e.c. (swimwear, etc.)		27	*2,952	85.6	1,235	25.8
22533 60	Girls', teenage girls', children's, and infants' playgarments, etc	1,000 dozens..	22	*2,555	80.3	1,140	39.6
22533 00	Other knit outerwear products, n.s.k	.....	15	(S)	33.4	125	6.5

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972 — Con.

Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	KNIT OUTERWEAR MILLS--Con.						
22539 --	Contract and commission receipts for knitting and/or dyeing knit outerwear products:						
22539 11	Receipts for commission knitting and/or dyeing knit outerwear products	...	(NA)	(X)	154.2	(X)	205.8
22530 00	Knit outerwear mills, n.s.k., typically for establishments with 10 employees or more (see note)	...	(NA)	(X)	188.8	(X)	79.1
22530 02	Knit outerwear mills, n.s.k., typically for establishments with less than 10 employees (see note)	...	(NA)	(X)	30.3	(X)	24.6
	KNIT UNDERWEAR MILLS						
2254- --	Total[6]	...	(X)	(X)	[6]579.5	(X)	[6]481.5
22541 --	Men's and boys' knit underwear and nightwear (made from yarns or fabrics knit in the same establishment):						
22541 15	Men's and boys' knit underwear and nightwear	1,000 dozens	37	38,288	431.0	45,565	360.3
22542 --	Women's and children's knit underwear (made from yarns or fabrics knit in the same establishment):						
22542 00	Women's and children's knit underwear		27	14,877	95.4	14,143	73.0
22543 --	Women's and children's knit nightwear (made from yarns or fabrics knit in the same establishment):						
22543 00	Women's and children's knit nightwear	1,000 dozens	12	*1,995	50.0	2,641	45.9
22540 00	Knit underwear mills, n.s.k., typically for establishments with 20 employees or more (see note)	...	(X)	(X)	1.1	(X)	1.7
22540 02	Knit underwear mills, n.s.k., typically for establishments with less than 20 employees (see note)	...	(X)	(X)	2.0	(X)	.6
	CIRCULAR KNIT FABRIC MILLS						
2257- --	Total	Million lb	(NA)	(X)	3,111.2	(X)	2,770.2
22571 00	Greige goods		35	*224.2	343.5	104.3	163.2
	Finished circular knit fabric		(NA)	1,085.1	2,321.7	973.9	2,086.7
22572 00	Underwear and nightwear fabric		21	72.8	139.5	74.7	88.4
	Outerwear fabric		(NA)	*738.6	1,615.4	687.8	1,657.2
22575 00	Single knit		70	*215.1	564.6	172.9	367.5
22577 00	Double knit		85	**523.5	1,050.8	514.9	1,289.7
22574 00	High pile finished fabric		16	92.1	202.3	102.7	185.0
22578 00	All other circular knit finished fabric	Million lb	51	**181.6	364.5	108.7	156.1
22579 15	Receipts for commission knitting and/or dyeing knit fabric	...	117	(X)	286.1	(X)	394.0
22570 00	Knit fabric, n.s.k., typically for establishments with 5 employees or more (see note)	...	(NA)	(X)	120.2	(X)	105.6
22570 02	Knit fabric, n.s.k., typically for establishments with less than 5 employees (see note)	...	(NA)	(X)	39.7	(X)	20.7
	WARP KNIT FABRIC MILLS						
2258- --	Total	Million lb	(NA)	(X)	1,568.4	(X)	928.6
22581 00	Greige goods		37	*193.7	363.3	104.8	151.9
	Finished warp knit fabric		(NA)	*422.6	1,036.3	343.9	675.3
22582 00	Underwear and nightwear fabric		35	*153.3	405.2	145.0	276.0
22583 00	Outerwear fabric		43	*143.1	328.2	101.9	212.5
22584 00	All other finished warp knit fabric	Million lb	67	**126.2	302.9	97.0	186.8
22589 13	Receipts for commission knitting and/or dyeing knit fabric	...	42	(X)	138.7	(X)	95.5
22580 00	Knit fabric, n.s.k., typically for establishments with 5 employees or more (see note)	...	(NA)	(X)	8.4	(X)	4.0
22580 02	Knit fabric, n.s.k., typically for establishments with less than 5 employees (see note)	...	(NA)	(X)	21.7	(X)	1.9
	KNITTING MILLS, N.E.C.						
2259- --	Total	...	(NA)	(X)	112.9	(X)	87.1
22590 --	Knit gloves and mittens:						
22590 10	Dress and semidress gloves and mittens, including knit fabric and leather combinations	1,000 doz. prs.	5	625	9.9	834	10.0
22590 70	Work gloves and mittens, including knit fabric and leather combinations	1,000 doz. prs.	9	**4,012	16.8	1,488	10.9
22590 98	Other knit end products, except fabric, n.e.c., including knitted towels, washcloths, curtains, etc	1,000 dozen	24	(S)	41.9	(X)	48.6

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972 — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	KNITTING MILLS, N.E.C.--Con.						
22590 00	Knitting mill products, n.e.c., n.s.k., including commission receipts for making knit gloves and mittens, typically for establishments with 5 employees or more (see note).....	.....	(NA)	(X)	25.9	(X)	14.6
22590 02	Knitting mill products, n.e.c., n.s.k., including commission receipts for making knit gloves and mittens, typically for establishments with less than 5 employees (see note).....	.....	(NA)	(X)	18.4	(X)	3.0

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 5 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classifed. n.s.k. Not specified by kind. (S) Withheld because the estimate did not meet publication standards.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]Aggregate includes a substantial duplication. Value of hosiery shipped in the greige is, in effect, counted twice: Once as a shipment of establishment producing greige goods to dyeing and finishing plant, and again in finished hosiery shipped by dyeing and finishing plant.

[4]10 to 30 percent of quantity was estimated.

[5]Quantity was estimated based on quantity-value relationship of all other products in this product class.

[6]Data are only for products made in knitting mills. 1977 and 1972 quantity and value for output of cut-and-sew establishments, are shown in Industry 2321, Men's and Boys' Shirts and Nightwear; Industry 2322, Men's and Boys' Underwear; and Industry 2341, Women's and Children's Underwear.

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
22513, WOMEN'S FINISHED SEAMLESS HOSIERY		
United States	722.4	759.5
Middle Atlantic Division:		
Pennsylvania	25.6	27.3
South Atlantic Division:		
North Carolina	458.5	456.3
East South Central Division:		
Tennessee	36.5	98.0
22515, WOMEN'S GRAY SEAMLESS HOSIERY		
United States	58.4	101.1
Middle Atlantic Division:		
Pennsylvania	2.7	AA
South Atlantic Division:		
North Carolina	36.2	GG
22522, MEN'S FINISHED SEAMLESS HOSIERY		
United States	464.6	285.9
Middle Atlantic Division:		
Pennsylvania	29.1	FF
South Atlantic Division:		
North Carolina	283.0	181.6
Georgia	26.5	10.8
East South Central Division:		
Tennessee	52.8	FF
Alabama	6.0	BB
22523, OTHER FINISHED SEAMLESS HOSIERY		
United States	274.3	188.7
East North Central Division:		
Wisconsin	6.3	AA
South Atlantic Division:		
North Carolina	169.9	110.5
Georgia	17.4	EE
East South Central Division:		
Tennessee	40.6	41.1
Alabama	18.2	BB
22524, SEAMLESS GRAY HOSIERY, EXCEPT WOMEN'S FULL AND KNEE LENGTH		
United States	93.5	78.6
South Atlantic Division:		
North Carolina	80.9	GG
East South Central Division:		
Tennessee	7.2	BB
Alabama	(D)	BB
22531, SWEATERS, KNIT JACKETS, AND JERSEYS		
United States	555.5	473.8
Middle Atlantic Division:		
New York	220.6	190.1
New Jersey	34.5	19.4
Pennsylvania	110.4	108.2
South Atlantic Division:		
North Carolina	32.3	27.7
Pacific Division:		
California	9.1	CC
22532, KNIT OUTERWEAR SPORT SHIRTS		
United States	518.1	342.8
Middle Atlantic Division:		
New York	49.1	53.2
New Jersey	(D)	CC
Pennsylvania	93.1	FF
South Atlantic Division:		
North Carolina	95.5	82.7
22533 OTHER KNIT OUTERWEAR PRODUCTS		
United States	689.7	445.0
Middle Atlantic Division:		
New York	132.2	120.6
New Jersey	11.0	AA
Pennsylvania	(D)	GG
East North Central Division:		
Wisconsin	39.7	20.1
West North Central Division:		
Minnesota	5.3	AA
South Atlantic Division:		
Virginia	(D)	FF
North Carolina	81.6	7.5
West South Central Division:		
Texas	4.5	(NA)
Pacific Division:		
California	19.8	CC
22539, COMMISSION KNITTING AND/OR DYEING OF KNIT OUTERWEAR		
United States	154.2	205.8
New England Division:		
Massachusetts	17.0	(NA)
Middle Atlantic Division:		
New York	70.2	(NA)
New Jersey	22.8	(NA)
Pennsylvania	11.6	(NA)
South Atlantic Division:		
North Carolina	15.0	(NA)
Pacific Division:		
California	3.4	(NA)
22541, MEN'S AND BOYS' KNIT UNDERWEAR AND NIGHTWEAR		
United States	431.0	360.3
Middle Atlantic Division:		
New York	14.8	BB
Pennsylvania	95.8	107.6
South Atlantic Division:		
North Carolina	72.9	FF
East South Central Division:		
Mississippi	24.6	CC
22542, WOMEN'S AND CHILDREN'S KNIT UNDERWEAR		
United States	95.4	73.0
Middle Atlantic Division:		
New York	7.7	EE
Pennsylvania	23.9	25.9
South Atlantic Division:		
North Carolina	39.5	EE

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** — Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
22543, WOMEN'S AND CHILDREN'S KNIT NIGHTWEAR		
United States	50.0	45.9
Middle Atlantic Division:		
Pennsylvania	14.1	CC
22571, CIRCULAR KNIT GRAY FABRICS, EXCEPT HOSIERY		
United States	343.5	163.2
Middle Atlantic Division:		
New York	21.3	EE
South Atlantic Division:		
North Carolina	175.7	87.3
East South Central Division:		
Tennessee	13.2	CC
22572, CIRCULAR KNIT UNDERWEAR AND NIGHTWEAR FINISHED FABRICS		
United States	139.5	88.4
South Atlantic Division:		
North Carolina	45.8	23.1
22574, CIRCULAR KNIT HIGH PILE FINISHED FABRICS		
United States	202.3	185.0
Middle Atlantic Division:		
New York	8.6	BB
East North Central Division:		
Wisconsin	14.8	26.9
South Atlantic Division:		
North Carolina	(D)	FF
22575, SINGLE CIRCULAR KNIT OUTERWEAR FINISHED FABRICS		
United States	564.6	367.5
Middle Atlantic Division:		
New York	100.3	(NA)
South Atlantic Division:		
North Carolina	230.8	(NA)
Pacific Division:		
California	7.3	(NA)
22577, DOUBLE CIRCULAR KNIT OUTERWEAR FINISHED FABRICS		
United States	1,050.8	1,289.7
Middle Atlantic Division:		
New York	120.3	(NA)
New Jersey	121.8	(NA)
Pennsylvania	40.2	(NA)
South Atlantic Division:		
North Carolina	503.3	(NA)
South Carolina	128.9	(NA)
Pacific Division:		
California	43.4	(NA)
22578, OTHER CIRCULAR KNIT FINISHED FABRICS		
United States	364.5	156.1
New England Division:		
Massachusetts	32.0	(NA)
Middle Atlantic Division:		
New York	32.4	(NA)
West North Central Division:		
Minnesota	5.9	(NA)
South Atlantic Division:		
North Carolina	163.7	(NA)
South Carolina	71.9	(NA)
22579, COMMISSION KNITTING AND/OR DYEING CIRCULAR KNIT FABRICS		
United States	286.1	394.0
Middle Atlantic Division:		
New York	45.5	(NA)
New Jersey	11.8	(NA)
Pennsylvania	31.2	(NA)
South Atlantic Division:		
North Carolina	111.3	(NA)
South Carolina	25.7	(NA)
Florida	6.0	(NA)
22581, WARP KNIT GRAY FABRICS, EXCEPT HOSIERY		
United States	363.3	151.9
Middle Atlantic Division:		
New Jersey	22.5	29.2
Pennsylvania	45.4	12.7
South Atlantic Division:		
North Carolina	206.6	65.0
22582, WARP KNIT UNDERWEAR AND NIGHTWEAR FINISHED FABRICS		
United States	405.2	276.0
Middle Atlantic Division:		
New York	63.6	54.2
Pennsylvania	79.2	FF
South Atlantic Division:		
North Carolina	141.1	GG
South Carolina	25.8	(NA)
22583, WARP KNIT OUTERWEAR FINISHED FABRICS		
United States	328.2	212.5
Middle Atlantic Division:		
New York	32.8	31.3
New Jersey	20.0	BB
South Atlantic Division:		
North Carolina	134.0	GG
South Carolina	16.0	EE
22584, OTHER WARP KNIT FINISHED FABRICS		
United States	302.9	186.8
New England Division:		
Rhode Island	20.4	CC
Connecticut	14.8	AA
Middle Atlantic Division:		
New York	18.2	23.9
New Jersey	20.2	21.8
Pennsylvania	49.0	52.8
South Atlantic Division:		
Virginia	33.7	21.3
North Carolina	(D)	EE
South Carolina	36.4	FF
22589, COMMISSION KNITTING AND/OR DYEING WARP KNIT FABRICS		
United States	138.7	95.5
Middle Atlantic Division:		
New York	12.1	(NA)
New Jersey	13.4	(NA)
Pennsylvania	8.9	(NA)
South Atlantic Division:		
North Carolina	59.4	(NA)

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available.

Table 6c. Product Classes — Value Shipped by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2251-	Women's hosiery, except socks	819.1	704.7	723.3	713.6	810.7	899.0	772.7	588.0
22511	Women's finished full-fashioned hosiery	(D)	(11.4)	(10.1)	(9.0)	9.5	8.1	27.9	56.4
22513	Women's finished seamless hosiery	722.4	642.0	650.4	629.7	677.4	759.5	554.2	400.5
22514	Women's gray full-fashioned hosiery	(D)	5.4	5.9	5.9	7.1	9.6	7.9	20.9
22515	Women's gray seamless hosiery	58.4	(49.3)	59.6	67.5	98.4	101.1	145.5	103.4
22510	Women's hosiery, except socks, n.s.k.	37.3	(2)	(2)	(1.5)	18.3	20.7	37.2	6.8
2252-	Hosiery, n.e.c.	893.6	706.2	640.0	614.9	629.3	588.0	454.5	397.1
22522	Men's finished seamless hosiery	464.6	414.7	351.9	328.1	302.7	285.9	238.3	202.1
22523	Other finished seamless hosiery	274.3	212.4	202.6	199.0	205.3	188.7	131.7	144.4
22524	Seamless gray hosiery, except women's full and knee length	93.5	(74.4)	(66.5)	64.4	82.5	78.6	61.0	43.2
22520	Hosiery, n.e.c., n.s.k.	61.2	(S)	(19.0)	(23.4)	38.8	34.8	23.5	7.4
2253-	Knit outerwear	[3]2,136.6	1,893.5	1,828.5	1,924.1	1,808.9	[3]1,571.1	[3]1,170.0	[3]944.9
22531	Sweaters, knit jackets, and jerseys	[3]555.5	742.0	594.7	585.2	576.6	[3]473.8	[3]506.0	[3]483.2
22532	Knit outerwear sport shirts	[3]518.1	536.6	460.2	446.1	386.9	[3]342.8	[3]210.9	[3]159.9
22533	Other knit outerwear products	689.7	469.4	639.9	665.6	496.8	445.0	225.0	142.8
22539	Commission knitting and/or dyeing of knit outerwear	154.2	(115.4)	(105.1)	176.8	240.7	205.8	131.1	104.9
22530	Knit outerwear, n.s.k.	219.1	(30.1)	(28.6)	(50.4)	107.9	103.7	97.0	54.1
2254-	Knit underwear and nightwear	579.5	609.1	551.2	546.7	486.1	481.5	396.7	336.4
22541	Men's and boys' knit underwear and nightwear	431.0	450.8	401.8	414.4	349.5	360.3	271.0	221.5
22542	Women's and children's knit underwear	95.4	82.5	77.5	67.5	75.9	73.0	76.5	70.8
22543	Women's and children's knit nightwear	50.0	69.3	63.3	61.0	56.1	45.9	45.5	43.1
22540	Knit underwear and nightwear, n.s.k.	3.1	(6.5)	8.6	3.8	4.6	2.3	3.7	1.1
2257-	Circular knit fabrics	3,111.2	2,953.1	2,859.6	3,020.4	3,045.5	2,770.2	794.3	464.5
22571	Circular knit gray fabrics, except hosiery	343.5	367.7	382.7	383.0	248.6	163.2		
22572	Circular knit underwear and nightwear finished fabrics	139.5	130.5	109.1	97.8	96.0	88.4		
22574	Circular knit high pile finished fabrics	202.3	205.6	191.5	159.4	175.5	185.0	694.7	417.8
22575	Single circular knit outerwear finished fabrics	564.6	1,532.3	1,494.7	1,612.5	1,766.6	367.5		
22577	Double circular knit outerwear finished fabrics	1,050.8					1,289.7		
22578	Other circular knit finished fabrics	364.5	316.4	256.2	(286.7)	224.6	156.1		
22579	Commission knitting and/or dyeing of circular knit fabrics	286.1	361.0	362.0	340.9	433.3	394.0	99.6	46.7
22570	Circular knit fabrics, n.s.k.	159.9	(39.6)	(63.4)	(140.1)	100.9	126.3		
2258-	Warp knit fabrics	1,568.4	1,332.3	1,255.7	1,175.0	1,049.8	928.6	614.9	354.3
22581	Warp knit gray fabrics, except hosiery	363.3	269.9	217.4	210.8	196.0	151.9		
22582	Warp knit underwear and nightwear finished fabrics	405.2	322.1	312.9	329.0	312.8	276.0	537.8	318.7
22583	Warp knit outerwear finished fabrics	328.2	293.2	301.3	290.1	285.9	212.5		
22584	Other warp knit finished fabrics	302.9	310.0	290.1	223.8	160.3	186.8		
22589	Commission knitting and/or dyeing warp knit fabrics	138.7	131.1	115.3	101.6	90.1	95.5	77.1	35.6
22580	Warp knit fabrics, n.s.k.	30.1	(S)	(18.7)	(19.7)	4.7	5.9		
22590	Knitting mill products, n.e.c.	112.9	(144.9)	(157.4)	(139.5)	92.4	87.1	35.7	39.9

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]Withheld because estimated figure is negative. This is consequence of using difference method of estimation (see Estimating Procedures in appendix B) and of improved establishment reporting that resulted in changing classification of shipments from n.s.k. code for 1972 Census to specified 5-digit product classes for this year. Four-digit total is best estimate, even though smaller than sum of 5-digit values.

[3]For purposes of comparability with prior years' annual survey of manufactures data, value of shipments of cut and sew shops (Major Group 23) has been excluded (see tables 5c and 6a).

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2251, WOMEN'S HOSIERY, EXCEPT SOCKS					
	Materials, containers, and supplies		(X)	373.4	(X)	477.5
225011	Hosiery in the greige		(X)	37.6	(X)	157.3
225021	Panty hose shipped in the greige		(X)	40.0		
228102	Cotton yarns	Million lb.	*7.8	11.8	(NA)	(2)
228141	Nylon spun yarns		13.6	40.6	13.5	30.9
228145	Acrylic yarns		*5.6	8.3	2.8	3.0
282411	Nylon filament yarns		*52.7	95.7	64.3	157.0
282435	Spandex filament yarns		3.2	28.0	(NA)	(3)
228011	All other yarns	Million lb.	(S)	4.3	2.7	10.1
970099	All other materials and components, parts, containers, and supplies		(X)	88.2	(X)	2 3101.0
971000	Materials, containers, and supplies, n.s.k.[4]		(X)	18.9	(X)	18.2
	INDUSTRY 2252, HOSIERY, N.E.C.					
	Materials, containers, and supplies		(X)	478.1	(X)	287.8
225011	Hosiery in the greige		(X)	134.8	(X)	79.7
228102	Cotton yarns	Million lb.	*40.6	53.1	42.3	34.1
228141	Nylon spun yarns		**16.1	28.7	10.7	15.8
228145	Acrylic yarns		**41.6	71.7	23.0	33.6
282411	Nylon filament yarns		22.5	42.6	24.7	39.2
282435	Spandex filament yarns		1.2	4.8	(NA)	(3)
228011	All other yarns	Million lb.	*12.8	29.7	11.0	18.0
970099	All other materials and components, parts, containers, and supplies		(X)	70.0	(X)	343.6
971000	Materials, containers, and supplies, n.s.k.[4]		(X)	42.7	(X)	23.8
	INDUSTRY 2253, KNIT OUTERWEAR MILLS					
	Materials, containers, and supplies		(X)	887.9	(X)	650.7
225078	Knitted fabrics, purchased	Million lb.	**37.7	90.4	58.0	16.4
228110	Carded cotton yarns		28.9	36.1	38.6	32.6
228120	Combed cotton yarns		**20.7	29.7	39.9	43.8
228130	Rayon and acetate spun yarns		*9.6	1.7	56.2	6.2
228141	Nylon spun yarns		*4.2	8.7	9.2	19.2
228143	Polyester spun yarns		*21.7	34.0	47.3	74.5
228145	Acrylic yarns		*64.1	128.0	52.3	92.6
228301	Wool yarns		7.2	24.3	23.2	56.3
282301	Rayon and acetate filament yarns		**1.0	1.4	1.2	1.4
282411	Nylon filament yarns		6.4	18.1	20.7	30.8
282423	Polyester filament yarns		22.9	35.2	34.5	61.1
228001	All other yarns	Million lb.	14.4	24.2	11.7	17.2
970099	All other materials and components, parts, containers, and supplies		(X)	201.2	(X)	120.2
971000	Materials, containers, and supplies, n.s.k.[4]		(X)	254.9	(X)	78.4
	INDUSTRY 2254, KNIT UNDERWEAR MILLS					
	Materials, containers, and supplies		(X)	325.8	(X)	208.8
225078	Knitted fabrics, purchased	Million lb.	(S)	7.5	(NA)	16.4
228110	Carded cotton yarns		75.3	94.5	77.6	51.5
228120	Combed cotton yarns		26.2	40.7	44.5	38.9
228000	Manmade fiber yarn, filament and spun		19.6	34.4	(NA)	46.4
228013	All other yarns	Million lb.	15.8	25.7	14.7	14.0
970099	All other materials and components, parts, containers, and supplies		(X)	99.4	(X)	37.0
971000	Materials, containers, and supplies, n.s.k.[4]		(X)	23.6	(X)	4.6

See footnotes at end of table.

Table 7. Materials Consumed by Kind: 1977 and 1972 – Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2257, CIRCULAR KNIT FABRIC MILLS					
	Materials, containers, and supplies	.....	(X)	1,885.1	(X)	1,504.9
225078	Knitted fabrics, purchased	Million lb.....	*206.9	290.1	36.1	65.2
282014	Manmade fibers, staple, and tow	Million lb.....	106.4	85.8	109.1	63.0
013101	Raw cotton	Million bales..	64.7	26.7	106.2	17.3
027111	Raw wool	Million lb.....	([6])	([6])	([6])	([6])
228110	Carded cotton yarns	↑	48.7	60.9	71.0	54.9
228120	Combed cotton yarns		88.9	152.3	97.0	94.4
228130	Rayon and acetate spun yarns		9.2	9.9	12.1	9.0
228141	Nylon spun yarns		9.8	11.8	6.5	6.6
228143	Polyester spun yarns		**166.0	207.3	167.4	207.9
228145	Acrylic yarns		49.6	63.6	48.9	56.2
228301	Wool yarns		.5	1.5	5.2	13.4
282301	Rayon and acetate filament yarns		([6])	([6])	6.0	3.3
282411	Nylon filament yarns		37.2	97.8	25.5	38.7
282423	Polyester filament yarns		254.1	289.3	343.1	476.7
228001	All other yarns	Million lb.....	**113.6	179.4	36.4	40.3
970099	All other materials and components, parts, containers, and supplies	.....	(X)	[6]225.8	(X)	[6]274.8
971000	Materials, containers, and supplies, n.s.k.[4]	.....	(X)	182.9	(X)	83.2
	INDUSTRY 2258, WARP KNIT FABRIC MILLS					
	Materials, containers, and supplies	.....	(X)	842.0	(X)	614.6
225078	Knitted fabrics, purchased	Million lb.....	29.4	43.2	31.0	56.9
282014	Manmade fibers, staple and tow	Million lb.....	([7])	([7])	([7])	([7])
013101	Raw cotton	Million bales..	([7])	([7])	-	-
027111	Raw wool	Million lb.....	-	-	(D)	(D)
228110	Carded cotton yarns	↑	([7])	([7])	([7])	([7])
228120	Combed cotton yarns		([7])	([7])	([7])	([7])
228130	Rayon and acetate spun yarns		29.3	32.3	12.4	10.5
228141	Nylon spun yarns		34.3	51.6	10.5	13.7
228143	Polyester spun yarns		30.8	40.4	12.9	19.2
228145	Acrylic yarns		20.0	17.7	([7])	([7])
228301	Wool yarns		([7])	([7])	(D)	(D)
282301	Rayon and acetate filament yarns		91.6	93.7	141.6	105.7
282411	Nylon filament yarns		141.8	216.8	151.4	187.7
282423	Polyester filament yarns		117.1	135.6	81.9	118.4
228001	All other yarns	Million lb.....	[7]56.5	[7]73.9	[7]19.2	[7]36.3
970099	All other materials and components, parts, containers, and supplies	.....	(X)	67.2	(X)	60.9
971000	Materials, containers, and supplies, n.s.k.[4]	.....	(X)	69.6	(X)	5.3
	INDUSTRY 2259, KNITTING MILLS, N.E.C.					
	Materials, containers, and supplies	.....	(X)	54.1	(X)	30.6
225078	Knitted fabrics, purchased	.....	([8])	([8])	(X)	([8])
228110	Carded cotton yarns	Million lb.....	(S)	8.4	7.1	5.8
970099	All other materials and components, parts, containers, and supplies	.....	(X)	[8]19.9	(X)	[8]18.2
971000	Materials, containers, and supplies, n.s.k.[4]	.....	(X)	25.8	(X)	6.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]For 1972, material code 228102 was included with material code 970099.

[3]For 1972, material code 282435 was included with material code 970099.

[4]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[5]10 to 30 percent of quantity was estimated.

[6]For 1977 and 1972, material code 027111 was included with material code 970099. For 1977, material code 282301 was included with material code 970099.

[7]Material codes 282014, 013101, 228110, 228120, 228145, and 228301 were included with material code 228001.

[8]For 1977 and 1972, material code 225078 was included with material code 970099.

Dyeing and Finishing Textiles, Except Wool Fabrics and Knit Goods

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DESCRIPTION OF INDUSTRIES

DYEING AND FINISHING TEXTILES, EXCEPT WOOL FABRICS AND KNIT GOODS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2261	Finishing Plants, Cotton
2262	Finishing Plants, Manmade Fiber and Silk
2269	Finishing Plants, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.) This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2261, FINISHING PLANTS, COTTON

This industry comprises establishments primarily engaged in finishing purchased cotton broad woven fabrics, or finishing such fabrics on a commission basis. These finishing operations include bleaching, dyeing, printing (roller, screen, flock, plisse), and other mechanical finishing such as preshrinking, calendering, and napping. This industry also includes the shrinking and sponging of cloth for the trade, and chemical finishing for water repellency, fire resistance, and mildew proofing. Establishments primarily engaged in finishing wool broad woven fabrics are classified in industry 2231; knit goods in industry group 225; and those coating or impregnating fabrics in industry 2295.

The total value of shipments for establishments classified in the Finishing Plants, Cotton industry amounted to $760 million in 1977, an increase of 22 percent from 1972. The value of shipments of products classified as primary to the industry was $1,514 million, an increase of 31 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $351 million in 1977, was 9 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 20.8 thousand employees, a decrease of 19 percent from 1972. The leading States in employment were South Carolina, Massachusetts, Georgia, and North Carolina, accounting for approximately 70 percent of the industry's 1977 employment.

Certain products primary to industry 2261 are also primary to Industry 2211, Weaving Mills, Cotton. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2262, FINISHING PLANTS, MANMADE FIBER AND SILK

This industry comprises establishments primarily engaged in finishing purchased manmade fiber and silk broad woven fabrics or finishing such fabrics on a commission basis. These finishing operations include bleaching, dyeing, printing (roller, screen, flock, plisse), and other mechanical finishing such as preshrinking, calendering, and napping. Establishments primarily engaged in finishing wool broad woven fabrics are classified in industry 2231; knit goods in industry group 225, and those coating or impregnating fabrics in industry 2295.

The total value of shipments for establishments classified in the Finishing Plants, Manmade Fiber and Silk industry amounted to $2,404 million in 1977, an increase of 76 percent from 1972. The value of shipments of products classified as primary to the industry was $3,265 million, an increase of 82 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $792 million in 1977, was 52 percent above value added in 1972. All dollar figures shown in this report are

in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 37.2 thousand employees, an increase of 6 percent from 1972. The leading States in employment were South Carolina, North Carolina, New Jersey, and Georgia, accounting for approximately 70 percent of the industry's 1977 employment.

Certain products primary to industry 2262 are also primary to Industry 2221, Weaving Mills, Manmade Fiber and Silk. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2269, FINISHING PLANTS, N.E.C.

This industry comprises establishments primarily engaged in dyeing and finishing textiles, not elsewhere classified, such as bleaching, dyeing, printing, and finishing of raw stock, yarn, braided goods, and narrow fabrics, except wool and knit fabrics. These establishments perform finishing operations on purchased textiles or on a commission basis.

The total value of shipments for establishments classified in the Finishing Plants, N.E.C. industry amounted to $831 million in 1977, an increase of 30 percent from 1972. The value of shipments of products classified as primary to the industry was $1,617 million, an increase of 101 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, $274 million in 1977, was less than 1 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 14.1 thousand employees, a decrease of 24 percent from 1972. The leading States in employment were North Carolina, New Jersey, Georgia, and South Carolina, accounting for approximately 50 percent of the industry's 1977 employment.

Certain products primary to industry 2269 are also primary to Industry 2281, Yarn Mills, Except Wool. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2261, FINISHING PLANTS, COTTON																
1977 Census--	195	210	94	20.8	211.4	17.3	35.7	162.2	351.3	414.8	759.5	29.2	(NA)	80.1	83	39
1976 ASM[6] ---	(NA)	(NA)	(NA)	22.7	214.1	18.8	38.6	163.1	330.4	408.8	737.3	23.8	344.1	80.2	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	21.6	183.7	17.8	35.5	137.8	289.3	340.9	631.1	20.6	334.8	77.9	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	22.6	171.4	18.5	36.2	128.9	253.8	381.0	632.5	25.8	349.4	88.5	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	24.9	176.2	20.8	42.4	138.2	330.7	335.0	647.5	22.2	331.6	71.0	(NA)	(NA)
1972 Census--	182	196	115	25.7	177.2	21.7	45.0	142.1	322.0	303.5	623.3	31.5	316.8	80.5	79	41
1971 ASM----	(NA)	(NA)	(NA)	27.7	189.4	23.2	49.9	147.1	348.8	354.1	704.1	30.1	377.1	75.4	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	27.7	171.1	23.2	48.7	132.1	288.6	298.4	584.1	22.2	347.0	74.9	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	32.9	192.9	27.7	59.3	151.6	314.8	531.4	856.8	23.7	398.9	119.4	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	32.7	181.8	27.7	58.5	143.6	306.0	548.4	840.7	20.0	383.0	127.9	(NA)	(NA)
1967 Census--	202	216	136	35.7	193.0	30.0	64.3	148.6	313.8	579.5	893.9	27.4	405.1	117.0	75	58
1966 ASM----	(NA)	(NA)	(NA)	35.1	182.2	29.5	63.2	139.2	328.9	532.9	853.9	27.6	(NA)	116.9	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	34.9	175.6	29.2	63.3	134.1	317.8	477.4	792.5	34.7	(NA)	109.1	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	43.6	207.1	36.9	78.7	158.9	352.8	579.0	929.0	32.3	406.4	111.9	(NA)	(NA)
1963 Census--	220	238	140	42.1	190.5	35.5	74.9	146.8	332.3	536.9	869.7	29.3	362.1	108.4	81	60
INDUSTRY 2262, FINISHING PLANTS, SYNTHETICS																
1977 Census--	246	285	189	37.2	396.2	30.4	63.7	293.4	792.0	1 619.0	2 404.3	75.9	(NA)	266.5	80	57
1976 ASM[6] ---	(NA)	(NA)	(NA)	36.8	363.2	30.5	62.2	270.6	752.0	1 441.0	2 158.0	82.0	768.0	234.2	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	34.7	333.0	28.7	59.4	248.6	669.5	1 201.4	1 878.3	63.7	712.0	194.1	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	37.3	310.4	30.9	63.5	232.0	622.3	1 308.8	1 894.4	49.6	673.7	211.3	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	38.1	305.0	32.3	68.1	234.5	568.9	1 052.1	1 630.1	54.5	601.8	136.5	(NA)	(NA)
1972 Census--	200	259	190	35.2	263.2	29.5	63.4	200.7	521.5	846.4	1 365.2	48.8	541.8	126.9	77	57
1971 ASM----	(NA)	(NA)	(NA)	32.6	227.0	27.1	57.4	172.5	426.4	572.1	984.9	38.8	457.6	117.4	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	32.4	212.9	27.0	58.7	162.3	380.9	526.6	908.5	29.9	420.6	100.7	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	29.5	198.3	24.6	54.7	149.9	374.8	388.4	761.2	32.0	347.8	64.7	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	28.6	182.4	23.9	53.3	139.0	330.6	307.0	642.0	21.1	306.9	48.9	(NA)	(NA)
1967 Census--	212	233	167	25.7	159.4	21.4	47.8	119.9	271.4	280.8	550.2	20.2	281.1	50.0	90	45
1966 ASM----	(NA)	(NA)	(NA)	24.9	144.6	20.5	45.8	108.1	250.4	304.2	550.3	32.8	(NA)	45.4	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	23.8	135.1	19.4	44.9	101.8	221.2	235.9	458.0	12.7	(NA)	37.5	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	20.4	117.6	17.2	38.4	90.6	194.1	145.9	338.5	10.2	173.3	33.2	(NA)	(NA)
1963 Census--	193	205	138	19.5	106.0	16.2	36.5	81.4	176.8	151.1	323.7	13.9	154.9	31.0	91	46
INDUSTRY 2269, FINISHING PLANTS, N.E.C.																
1977 Census--	178	183	112	14.1	132.3	12.1	24.1	98.4	274.0	560.9	830.6	24.6	(NA)	88.0	95	43
1976 ASM----	(NA)	(NA)	(NA)	12.4	110.8	10.7	21.8	83.9	232.9	418.9	646.8	11.0	210.1	66.6	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	11.7	95.5	10.0	19.9	71.6	192.1	334.0	523.9	7.3	216.9	61.1	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	14.7	105.3	12.5	24.9	78.1	224.4	361.1	587.8	16.0	208.7	59.6	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	17.5	122.3	15.3	32.0	93.7	266.3	385.1	649.4	25.1	220.7	53.0	(NA)	(NA)
1972 Census--	189	201	128	18.5	123.5	16.1	37.1	93.2	270.4	368.8	637.3	35.2	197.1	47.7	92	54
1971 ASM----	(NA)	(NA)	(NA)	13.2	83.7	11.3	23.9	62.9	173.6	251.1	424.6	19.0	127.6	34.3	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	12.4	73.2	10.5	22.2	54.1	141.5	206.6	346.8	13.5	113.2	30.4	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	12.1	66.5	10.5	21.1	51.3	129.7	186.9	317.0	10.7	90.4	24.2	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	12.5	66.0	11.0	22.2	50.8	131.8	167.7	298.3	7.5	86.0	25.5	(NA)	(NA)
1967 Census--	187	192	105	12.3	63.9	10.5	21.5	48.2	124.8	168.0	290.9	8.2	89.7	25.2	84	52
1966 ASM----	(NA)	(NA)	(NA)	11.6	56.1	10.1	20.7	41.9	101.1	172.4	273.0	7.3	(NA)	21.8	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	10.9	50.9	9.4	19.6	38.8	92.9	162.1	254.2	6.7	(NA)	21.6	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	10.2	45.6	8.8	17.8	33.5	83.9	133.6	218.4	14.6	60.8	19.4	(NA)	(NA)
1963 Census--	174	178	85	9.2	40.4	7.9	15.7	30.0	73.2	134.2	206.9	4.7	58.7	19.2	89	84

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol: II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2261, FINISHING PLANTS, COTTON										
1977 Census--	10 164	(NA)	83	2 064	4.53	54	82	(NA)	16 894	60	9.83
1976 ASM----	9 431	15 158	82	2 053	4.22	55	84	46	14 555	64	8.55
1975 ASM----	8 504	15 500	82	1 994	3.88	54	83	53	13 393	63	8.14
1974 ASM----	7 584	15 460	81	1 956	3.56	60	87	55	11 230	67	7.01
1973 ASM----	7 076	13 317	83	2 038	3.25	51	78	51	13 281	53	7.79
1972 Census--	6 894	12 326	84	2 073	3.15	48	77	50	12 529	55	7.15
1971 ASM----	6 837	13 613	83	2 150	2.94	50	77	53	12 592	54	6.98
1970 ASM----	6 176	12 527	83	2 099	2.71	51	80	59	10 418	59	5.92
1969 ASM----	5 863	12 124	84	2 140	2.55	62	84	46	9 568	61	5.30
1968 ASM----	5 559	11 712	84	2 111	2.45	65	86	45	9 357	59	5.23
1967 Census--	5 406	11 347	84	2 143	2.31	64	86	45	8 789	61	4.88
1966 ASM----	5 190	(NA)	84	2 142	2.20	62	83	(NA)	9 370	55	5.20
1965 ASM----	5 031	(NA)	83	2 167	2.11	60	82	(NA)	9 106	55	5.02
1964 ASM----	4 750	9 321	84	2 132	2.01	62	84	43	8 091	58	4.48
1963 Census--	4 524	8 600	84	2 109	1.95	61	83	41	7 893	57	4.43
	INDUSTRY 2262, FINISHING PLANTS, SYNTHETICS										
1977 Census--	10 652	(NA)	81	2 093	4.60	67	83	(NA)	21 292	50	12.42
1976 ASM----	9 869	20 869	82	2 039	4.35	66	83	35	20 434	48	12.09
1975 ASM----	9 596	20 518	82	2 069	4.18	63	81	37	19 293	48	11.27
1974 ASM----	8 321	18 061	82	2 055	3.65	69	85	35	16 683	49	9.80
1973 ASM----	8 005	15 795	84	2 108	3.44	64	83	36	14 931	53	8.35
1972 Census--	7 477	15 392	83	2 149	3.16	61	81	39	14 815	50	8.22
1971 ASM----	6 963	14 036	83	2 118	3.00	58	81	46	13 079	53	7.42
1970 ASM----	6 570	12 981	83	2 174	2.76	57	81	46	11 756	55	6.48
1969 ASM----	6 722	11 789	83	2 223	2.74	51	77	45	12 705	52	6.85
1968 ASM----	6 377	10 730	83	2 230	2.60	47	76	47	11 559	55	6.20
1967 Census--	6 202	10 937	83	2 233	2.50	51	80	51	10 560	58	5.67
1966 ASM----	5 807	(NA)	82	2 234	2.36	55	81	(NA)	10 056	57	5.46
1965 ASM----	5 676	(NA)	81	2 314	2.26	51	81	(NA)	9 294	61	4.92
1964 ASM----	5 764	8 495	84	2 232	2.35	43	77	51	9 514	60	5.05
1963 Census--	5 435	7 943	83	2 253	2.23	46	79	47	9 066	59	4.84
	INDUSTRY 2269, FINISHING PLANTS, N.E.C.										
1977 Census--	9 392	(NA)	85	1 989	4.08	67	83	(NA)	19 305	48	11.30
1976 ASM----	8 935	16 943	86	2 037	3.84	64	81	32	18 782	47	10.68
1975 ASM----	8 162	18 538	85	1 990	3.59	63	81	41	16 418	49	9.65
1974 ASM----	7 163	14 197	85	1 992	3.13	61	79	35	15 265	46	9.01
1973 ASM----	6 988	12 611	87	2 091	2.92	59	78	33	15 217	45	8.32
1972 Census--	6 675	10 654	87	2 304	2.51	57	77	30	14 616	45	7.28
1971 ASM----	6 340	9 666	85	2 115	2.63	59	78	30	13 151	48	7.26
1970 ASM----	5 903	9 129	84	2 114	2.43	59	80	32	11 411	51	6.37
1969 ASM----	5 495	7 471	86	2 009	2.43	58	79	28	10 719	51	6.14
1968 ASM----	5 280	6 880	88	2 018	2.28	56	78	28	10 544	50	5.93
1967 Census--	5 195	7 292	85	2 047	2.24	57	79	30	10 146	51	5.80
1966 ASM----	4 836	(NA)	87	2 049	2.02	63	83	(NA)	8 715	55	4.88
1965 ASM----	4 669	(NA)	86	2 085	1.97	63	83	(NA)	8 522	54	4.73
1964 ASM----	4 470	5 960	86	2 022	1.88	61	82	27	8 225	54	4.71
1963 Census--	4 391	6 380	85	1 987	1.91	64	84	28	7 956	55	4.66

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2261, FINISHING PLANTS, COTTON													
United States	-	210	94	20.8	211.4	17.3	35.7	162.2	351.3	414.8	759.5	29.2	25.7	322.0
New England Division:													
Massachusetts	-	14	7	2.6	27.6	2.1	4.6	22.0	44.1	63.7	108.4	8.1	2.1	27.2
Rhode Island	E2	15	8	0.8	9.6	0.5	0.9	4.3	9.2	7.0	16.2	0.7	(NA)	(D)
Connecticut	-	5	4	1.0	13.0	0.9	1.8	10.7	19.3	14.6	33.6	(D)	(NA)	(D)
Middle Atlantic Division:														
New York	E5	28	6	0.4	4.8	0.3	0.7	3.9	5.4	7.8	15.3	0.6	1.6	25.4
New Jersey	E3	20	14	1.0	11.8	0.8	1.8	9.3	22.7	13.2	35.8	(D)	1.3	15.1
Pennsylvania	E2	15	5	0.3	2.8	0.2	0.5	2.1	5.8	3.5	9.2	0.1	0.4	9.5
East North Central Division:														
Illinois	E4	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:														
Maryland	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Virginia	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
North Carolina	-	15	10	2.1	20.1	1.8	3.5	15.5	35.8	65.4	101.8	2.1	5.0	58.4
South Carolina	-	14	13	7.3	71.7	6.2	12.6	56.7	119.2	159.0	276.2	5.8	8.6	113.8
Georgia	-	11	9	2.3	19.1	1.9	4.0	14.0	29.7	35.9	66.9	1.9	1.9	18.1
East South Central Division:														
Alabama	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:														
Arkansas	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
California	E4	14	2	0.2	2.1	0.2	0.4	1.8	2.3	1.0	3.3	0.1	(NA)	(NA)
Industry 2261-11, Finishing Own Fabrics														
United States	(NA)	47	21	4.1	41.0	3.4	5.9	31.5	58.7	185.3	257.8	5.9	5.0	82.7
New England Division:														
Massachusetts	-	4	3	0.9	10.8	0.6	1.4	7.6	16.7	44.5	62.0	(D)	0.9	14.5
South Atlantic Division:														
North Carolina	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Carolina	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Industry 2261-51, Commission Finishing														
United States	(NA)	163	73	16.7	170.4	13.9	28.8	130.7	282.6	229.5	501.6	23.2	20.7	239.4
New England Division:														
Massachusetts	-	10	4	1.7	16.9	1.5	3.2	14.3	27.4	19.1	46.4	(D)	1.2	12.7
Rhode Island	E2	BB	8	0.8	9.5	0.5	0.9	4.2	9.1	6.9	16.0	0.7	BB	(D)
Connecticut	-	BB	3	1.0	12.5	0.9	1.8	10.3	18.4	14.1	32.3	(D)	BB	(D)
Middle Atlantic Division:														
New York	E7	21	5	0.3	2.8	0.2	0.5	2.2	3.9	3.6	7.4	0.5	CC	(D)
New Jersey	E3	18	13	0.9	11.2	0.8	1.7	8.7	21.7	12.6	34.3	0.8	EE	(D)
Pennsylvania	E1	13	4	0.2	2.5	0.2	0.4	1.9	5.0	2.5	7.6	0.1	BB	(D)
East North Central Division:														
Illinois	E4	5	4	0.2	2.4	0.2	0.4	1.9	3.8	4.1	7.9	(D)	AA	(D)
South Atlantic Division:														
Maryland	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Virginia	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
North Carolina	-	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
South Carolina	-	10	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Georgia	-	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East South Central Division:														
Alabama	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Arkansas	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
California	E3	9	1	0.2	1.6	0.1	0.3	1.4	1.4	0.6	2.0	0.1	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2262, FINISHING PLANTS, SYNTHETICS														
United States	-	**285**	**189**	**37.2**	**396.2**	**30.4**	**63.7**	**293.4**	**782.0**	**1 619.0**	**2 404.3**	**75.9**	**35.2**	**521.5**
New England Division:														
New Hampshire	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Massachusetts	-	16	12	2.0	23.3	1.6	3.6	17.6	40.6	24.7	64.8	0.5	(NA)	(D)
Rhode Island	-	8	7	1.1	12.2	0.9	1.8	9.2	19.7	15.0	35.0	1.6	1.6	18.3
Connecticut	-	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:														
New York	E1	45	27	2.0	22.4	1.7	3.8	16.8	40.6	46.6	88.0	3.2	2.4	27.7
New Jersey	-	53	42	3.3	46.4	2.7	6.0	37.2	77.2	59.8	139.2	(D)	4.7	87.5
Pennsylvania	-	16	6	0.6	6.3	0.4	1.0	4.7	8.8	7.5	18.6	0.4	1.1	10.7
South Atlantic Division:														
Delaware	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Virginia	-	9	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
North Carolina	-	34	30	7.7	79.1	6.2	12.9	57.3	215.9	282.0	503.1	10.2	5.5	99.6
South Carolina	-	20	19	10.8	108.4	9.0	18.3	82.3	188.8	733.1	907.7	(D)	9.7	125.0
Georgia	-	18	16	2.8	29.5	2.3	4.9	19.6	50.2	79.4	130.2	11.8	(NA)	(D)
Florida	E1	6	3	0.2	1.8	0.1	0.3	1.3	1.9	2.9	4.6	(D)	(NA)	(NA)
East South Central Division:														
Tennessee	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Alabama	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
California	E1	16	4	0.3	3.7	0.3	0.6	2.5	9.1	6.9	16.4	1.0	(NA)	(D)
Industry 2262-11, Finishing Own Fabrics														
United States	(NA)	**50**	**36**	**13.8**	**145.3**	**11.2**	**22.6**	**104.0**	**358.3**	**1 249.8**	**1 599.1**	**37.5**	**11.0**	**207.9**
New England Division:														
New Hampshire	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New Jersey	-	8	4	0.3	7.0	0.2	0.5	5.3	13.3	17.7	32.4	(D)	0.3	9.3
Pennsylvania	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
Virginia	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
North Carolina	-	10	9	EE	(D)	(D)	(D)	EE	(D)	(D)	(D)	(D)	EE	(D)
South Carolina	-	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.0	83.6
Georgia	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
East South Central Division:														
Tennessee	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Industry 2262-51, Commission Finishing														
United States	(NA)	**235**	**153**	**23.4**	**250.9**	**19.3**	**41.2**	**189.4**	**433.7**	**369.2**	**805.1**	**38.3**	**24.6**	**319.9**
New England Division:														
New Hampshire	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Massachusetts	-	15	11	1.9	22.9	1.6	3.6	17.5	39.8	23.8	63.1	0.4	FF	(D)
Rhode Island	-	7	6	1.0	11.1	0.8	1.6	8.3	17.9	13.4	31.7	1.6	EE	(D)
Connecticut	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Middle Atlantic Division:														
New York	E1	43	25	2.0	21.1	1.7	3.6	16.6	36.3	31.1	68.0	3.2	1.8	21.3
New Jersey	-	45	38	3.0	39.4	2.5	5.5	31.9	63.9	42.1	106.8	5.9	4.4	79.4
Pennsylvania	-	13	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Atlantic Division:														
Delaware	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Virginia	-	6	3	0.3	2.2	0.2	0.5	1.8	5.4	2.7	8.1	(D)	0.4	4.0
North Carolina	-	24	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
South Carolina	-	15	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	41.3
Georgia	-	14	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
East South Central Division:														
Tennessee	E3	4	3	0.2	1.7	0.1	0.3	1.2	3.3	2.2	5.5	(D)	(NA)	(NA)
Alabama	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pacific Division:														
California	E4	11	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

Table 2. **Industry Statistics by Geographic Area: 1977 and 1972**—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2269, FINISHING PLANTS, N.E.C.													
United States	-	[5]183	112	14.1	132.3	12.1	24.1	98.4	274.0	560.9	830.6	24.6	18.5	270.4
New England Division:													
Massachusetts	-	11	8	0.4	4.1	0.4	0.8	2.7	6.3	5.1	11.4	0.8	0.5	4.3
Rhode Island	E2	7	5	0.3	2.6	0.3	0.5	2.1	5.8	(D)	14.1	0.2	(NA)	(D)
Connecticut	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:														
New York	E2	26	9	0.6	6.5	0.6	1.2	5.3	11.2	7.8	19.0	1.8	1.9	23.4
New Jersey	-	20	14	1.7	17.6	1.4	2.9	12.4	33.2	79.1	110.7	(D)	1.8	31.1
Pennsylvania	-	22	13	0.9	8.6	0.8	1.5	6.5	13.6	20.7	33.9	0.4	1.1	18.7
East North Central Division:														
Ohio	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Illinois	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Michigan	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:														
Virginia	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
North Carolina	-	29	24	2.8	24.1	2.4	4.8	18.6	51.8	152.9	204.9	3.1	4.7	58.9
South Carolina	-	7	5	0.9	8.0	0.7	1.5	5.7	19.2	35.2	54.4	(D)	1.2	18.1
Georgia	-	21	14	1.3	11.2	1.1	2.1	8.2	23.9	46.0	69.6	1.9	(NA)	(D)
East South Central Division:														
Tennessee	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Alabama	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	E1	11	4	0.4	4.3	0.4	0.8	3.3	8.6	16.4	24.9	0.8	(NA)	(D)
Industry 2269-11, Finishing Own Yarns, Etc.														
United States	(NA)	[5]128	76	10.2	93.0	8.8	17.3	70.3	202.8	499.7	696.7	14.9	11.2	166.4
New England Division:														
Connecticut	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	E5	15	4	0.2	2.3	0.2	0.4	1.8	3.7	4.6	8.2	0.1	1.0	14.7
New Jersey	E1	14	9	1.0	10.7	0.8	1.7	7.0	25.0	63.9	87.4	1.8	1.0	17.1
Pennsylvania	-	11	7	0.5	4.2	0.4	0.8	3.2	7.1	15.1	21.8	0.2	0.6	8.7
East North Central Division:														
Michigan	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Atlantic Division:														
Virginia	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
North Carolina	-	25	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.8	47.2
South Carolina	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Georgia	-	15	9	1.0	7.6	0.8	1.5	5.5	16.9	33.5	50.3	1.3	CC	(D)
East South Central Division:														
Tennessee	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pacific Division:														
California	E1	10	4	0.4	4.2	0.4	0.8	3.2	8.6	16.4	24.8	0.8	(NA)	(NA)
Industry 2269-51, Commission Finishing														
United States	(NA)	[5]54	35	3.7	37.1	3.2	6.5	26.8	63.8	50.7	114.0	9.7	7.2	103.9
New England Division:														
Massachusetts	-	6	5	0.3	3.1	0.3	0.6	2.1	4.5	3.0	7.5	(D)	AA	(D)
Rhode Island	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	6.2
Middle Atlantic Division:														
New York	-	11	5	0.4	4.2	0.4	0.8	3.5	7.6	3.2	10.8	(D)	0.9	8.7
New Jersey	-	6	5	0.7	6.9	0.6	1.2	5.4	8.2	15.1	23.2	0.9	0.8	14.0
Pennsylvania	-	11	6	0.4	4.4	0.4	0.7	3.3	6.5	5.6	12.1	0.3	0.5	10.0
East North Central Division:														
Ohio	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Illinois	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
North Carolina	E1	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	11.8
South Carolina	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	-	6	5	0.4	3.6	0.3	0.6	2.7	7.0	12.6	19.3	(D)	CC	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Finishing plants, cotton (SIC 2261)			Finishing plants, synthetics (SIC 2262)			Finishing plants, n.e.c. (SIC 2269)		
		Total	Finishing own fabrics (SIC 2261-11)	Commission finishing (SIC 2261-51)	Total	Finishing own fabrics (SIC 2262-11)	Commission finishing (SIC 2262-51)	Total	Finishing own yarns, etc. (SIC 2269-11)	Commission finishing (SIC 2269-51)
Primary product specialization ratio[1]	percent	83	(NA)	(NA)	80	(NA)	(NA)	95	(NA)	(NA)
Coverage ratio[2]	do	39	(NA)	(NA)	57	(NA)	(NA)	43	(NA)	(NA)
All establishments	number	210	47	163	285	50	235	[7]183	[7]128	[7]54
With 1 to 19 employees	do	116	26	90	96	14	82	71	52	19
With 20 to 99 employees	do	56	12	44	90	13	77	75	49	26
With 100 employees or more	do	38	9	29	99	23	76	37	27	9
All employees, average for year	1,000	20.8	4.1	16.7	37.2	13.8	23.4	14.1	10.2	3.7
Payroll for year, all employees	mil. dol.	211.4	41.0	170.4	396.2	145.3	250.9	132.3	93.0	37.1
Production workers:										
Average for year	1,000	17.3	3.4	13.9	30.4	11.2	19.3	12.1	8.8	3.2
March	do	17.2	3.5	13.7	30.3	11.0	19.4	11.9	8.8	3.0
May	do	17.5	3.4	14.1	30.6	11.2	19.4	12.4	9.0	3.3
August	do	17.3	3.4	13.9	30.4	11.2	19.2	12.2	8.8	3.2
November	do	17.2	3.3	13.8	30.4	11.3	19.1	11.8	8.6	3.2
Hours	millions	35.7	6.9	28.8	63.7	22.6	41.2	24.1	17.3	6.5
January to March	do	9.0	1.7	7.3	16.0	5.7	10.3	5.8	4.2	1.5
April to June	do	9.6	1.8	7.8	17.0	6.0	11.1	6.4	4.6	1.7
July to September	do	8.4	1.7	6.8	15.0	5.4	9.6	5.9	4.1	1.7
October to December	do	8.7	1.8	6.9	15.8	5.5	10.3	6.0	4.3	1.6
Wages	mil. dol.	162.2	31.5	130.7	293.4	104.0	189.4	98.4	70.3	26.8
Cost of materials, etc.	do	414.8	185.3	229.5	1 619.0	1 249.8	369.2	560.9	497.7	50.7
Materials, parts, containers, etc., consumed	do	320.5	171.4	149.1	1 440.5	1 166.9	273.6	518.0	465.4	40.7
Resales	do	32.3	0.7	31.6	33.3	32.2	1.1	5.5	5.5	(Z)
Fuels consumed	do	47.1	9.9	37.2	81.3	26.5	54.9	18.5	12.4	5.8
Purchased electric energy	do	13.2	3.1	10.1	27.4	9.4	18.0	11.6	8.5	2.7
Contract work	do	1.7	0.2	1.5	36.5	14.9	21.6	7.3	5.9	1.4
Value of shipments, including resales	do	759.5	257.8	501.6	2 404.3	1 599.1	805.1	830.6	698.7	114.0
Value of resales	do	35.0	0.8	34.2	39.4	35.7	3.8	0.1	0.1	(Z)
Value added by manufacture	do	351.3	68.7	282.6	792.0	358.3	433.7	274.0	204.7	69.8
Manufacturers' inventories:										
Beginning of year	do	68.2	29.0	39.1	258.4	196.2	62.2	70.1	64.2	5.8
Finished products	do	15.4	10.9	4.5	73.0	63.0	10.0	20.3	19.1	1.2
Work in process	do	20.8	7.3	13.5	118.9	97.6	21.2	17.2	16.8	0.4
Materials, supplies, fuel, etc.	do	32.0	10.9	21.2	66.6	35.6	31.0	32.6	28.4	4.0
End of year	do	80.1	26.0	54.0	266.5	204.8	61.7	88.0	80.4	7.0
Finished products	do	16.0	7.7	10.3	81.6	73.7	7.9	23.7	22.3	1.3
Work in process	do	24.8	6.6	18.2	117.0	95.9	21.1	18.1	17.2	0.7
Materials, supplies, fuel, etc.	do	37.3	11.7	25.6	68.0	35.3	32.7	46.2	40.9	5.0
Capital expenditures for plant and equipment	do	32.5	6.3	26.2	81.4	38.7	42.7	26.2	15.9	10.3
New capital expenditures	do	29.2	5.9	23.2	75.9	37.5	38.3	24.6	14.9	9.7
New buildings and other structures	do	3.4	0.6	2.8	12.2	7.1	5.2	5.3	3.0	2.3
New machinery and equipment	do	25.7	5.3	20.4	63.6	30.5	33.1	19.4	11.9	7.4
Used capital expenditures	do	3.3	0.4	2.9	5.5	1.1	4.4	1.6	1.0	0.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Finishing plants, cotton (SIC 2261)		Finishing plants, synthetics (SIC 2262)		Finishing plants, n.e.c. (SIC 2269)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	2.3	2	3.3	12	(0.9)	34
Response coverage ratio[2] (percent)	62.0	(X)	67.7	(X)	73.4	(X)
Machinery	(21.0)	49	14.6	11	(4.6)	17
Response coverage ratio[2] (percent)	63.4	(X)	67.2	(X)	62.8	(X)
Cost of purchased communication services	(9.3)	69	5.1	5	1.2	14
Response coverage ratio[2] (percent)	67.0	(X)	75.6	(X)	79.0	(X)
Rental payments	3.4	13	(13.3)	29	(3.9)	19
Buildings and other structures	2.1	13	(5.5)	18	(2.1)	24
Machinery and equipment	(1.4)	29	(7.8)	52	(1.8)	22
Supplemental labor costs	32.3	7	57.0	2	18.8	3
Legal costs	18.0	8	31.1	2	10.5	3
Voluntary costs	14.4	7	25.9	2	8.2	3
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning of year	101.9	3	264.1	6	67.1	9
New capital expenditures	5.6	13	12.7	9	(4.0)	17
Used capital expenditures	6.3	1	-	(X)	-	(X)
Retirements	5.0	2	8.0	5	(1.0)	17
End of year	108.9	3	268.9	6	70.1	8
Machinery and equipment:						
Beginning of year	259.0	3	590.8	1	177.6	6
New capital expenditures[3]	27.1	8	66.2	5	18.8	12
Automobiles, trucks, etc., for highway use[3]	(0.4)	(A)	(0.9)	(A)	(0.4)	(A)
Computers and peripheral data processing equipment[3]	(0.2)	(A)	(1.1)	(A)	(Z)	(A)
All other[3]	(26.4)	(A)	(55.8)	(A)	(14.8)	(A)
New machinery and equipment, n.s.k.[4]	(0.1)	(A)	(8.4)	(A)	(3.6)	(A)
Used capital expenditures	16.2	2	5.7	3	(0.7)	25
Retirements	17.2	3	27.7	6	8.3	6
End of year	285.1	3	635.0	1	188.8	5
Total gross value of depreciable assets:						
Beginning of year	360.8	3	854.9	1	244.8	6
New capital expenditures	32.3	8	78.9	5	22.8	12
Used capital expenditures	22.5	2	5.7	3	(0.7)	24
Retirements	22.1	2	35.7	6	9.3	7
End of year	393.5	3	903.9	1	258.9	5
Depreciation charges during 1977	21.8	3	53.1	3	16.1	5
Buildings and other structures	3.6	3	8.8	7	2.5	7
Machinery and equipment	18.3	3	44.3	3	13.7	5

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2261, FINISHING PLANTS, COTTON												
Total	-	210	20.8	211.4	17.3	35.7	162.2	351.3	414.8	759.5	29.2	80.1
Establishments with an average of—												
1 to 4 employees	E5	61	0.1	1.0	0.1	0.2	0.8	0.3	3.0	5.5	0.6	0.6
5 to 9 employees	E5	29	0.2	1.8	0.2	0.3	1.4	3.0	3.5	6.5	0.2	0.6
10 to 19 employees	E8	26	0.3	3.0	0.3	0.5	2.3	5.4	5.6	11.0	0.5	1.1
20 to 49 employees	E2	36	1.2	12.0	1.0	2.0	8.8	20.0	21.2	41.6	1.3	3.6
50 to 99 employees	-	20	1.5	17.4	1.3	2.9	14.2	37.5	20.3	57.2	1.3	5.3
100 to 249 employees	-	14	2.3	22.5	2.0	4.2	16.8	33.8	51.2	85.2	4.6	10.2
250 to 499 employees	-	11	4.2	42.1	3.2	6.6	28.5	59.5	114.6	176.4	6.9	21.0
500 to 999 employees	-	11	(11.0)	(111.5)	(9.3)	(19.0)	(89.4)	(191.8)	(195.4)	(376.0)	(13.8)	(37.8)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	89	0.6	6.1	0.5	1.1	4.7	9.7	11.0	20.7	0.7	2.0
Industry 2261-11, Finishing Own Fabrics												
Total	-	47	4.1	41.0	3.4	6.9	31.5	68.7	185.3	257.8	5.9	26.0
Establishments with an average of—												
1 to 4 employees	E2	15	(Z)	0.2	(Z)	(Z)	0.1	(S)	1.8	2.8	(Z)	0.3
5 to 9 employees	E3	6	(Z)	0.3	(Z)	0.1	0.3	0.6	1.4	2.0	(Z)	0.2
10 to 19 employees	E8	5	0.1	0.5	0.1	0.1	0.4	1.2	2.1	3.3	(Z)	0.4
20 to 49 employees	E1	9	0.3	3.2	0.3	0.6	2.5	5.4	7.8	13.8	(0.9)	1.5
50 to 99 employees	-	3	0.3	3.2	0.2	0.5	2.7	4.5	4.6	8.7	(D)	1.9
100 to 249 employees	-	3	0.4	4.4	0.4	0.8	3.1	6.6	18.0	24.5	(5.0)	3.3
250 to 499 employees	-	4	(2.9)	(29.2)	(2.4)	(4.9)	(22.4)	(51.5)	(149.6)	(202.7)	(D)	(18.3)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	11	0.1	0.7	0.1	0.1	0.5	1.8	3.9	5.7	0.1	0.7
Industry 2261-51, Commission Finishing												
Total	-	163	16.7	170.4	13.9	28.8	130.7	282.6	229.5	501.6	23.2	54.0
Establishments with an average of—												
1 to 4 employees	E8	46	0.1	0.9	0.1	0.2	0.7	1.4	1.2	2.6	0.5	0.2
5 to 9 employees	E6	23	0.2	1.5	0.1	0.3	1.1	2.4	2.1	4.5	0.1	0.4
10 to 19 employees	E7	21	0.3	2.5	0.2	0.4	1.9	4.2	3.5	7.7	0.4	0.7
20 to 49 employees	E3	27	0.8	8.8	0.7	1.4	6.3	14.6	13.3	27.9	(1.7)	2.1
50 to 99 employees	-	17	1.2	14.2	1.1	2.3	11.5	33.0	15.7	48.4	(D)	3.4
100 to 249 employees	-	11	1.9	18.2	1.7	3.4	13.8	27.2	33.2	60.7	(20.5)	6.9
250 to 499 employees	-	7	(12.2)	(124.4)	(10.0)	(20.8)	(95.5)	(199.8)	(160.4)	(349.8)	(D)	(40.4)
500 to 999 employees	-	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	78	0.6	5.4	0.5	1.0	4.2	7.9	7.1	15.0	0.6	1.3
INDUSTRY 2262, FINISHING PLANTS, SYNTHETICS												
Total	-	285	37.2	396.2	30.4	63.7	293.4	792.0	1 619.0	2 404.3	75.9	266.5
Establishments with an average of—												
1 to 4 employees	E9	60	0.1	0.8	0.1	0.1	0.6	0.1	1.2	2.6	0.5	0.2
5 to 9 employees	E6	18	0.1	1.2	0.1	0.2	0.9	2.4	2.0	4.4	0.2	0.4
10 to 19 employees	E6	18	0.2	2.2	0.2	0.4	1.6	3.5	3.1	6.6	0.5	0.6
20 to 49 employees	E1	51	1.6	20.2	1.3	2.8	13.3	37.1	51.9	89.7	2.1	8.2
50 to 99 employees	-	39	2.8	35.1	2.4	5.2	26.0	62.3	40.2	103.0	3.5	7.4
100 to 249 employees	-	59	8.8	96.7	7.2	15.3	73.9	175.7	211.2	388.3	17.9	36.2
250 to 499 employees	-	26	9.8	101.1	8.0	16.7	73.0	183.0	339.0	530.4	27.8	41.6
500 to 999 employees	-	9	(13.7)	(139.0)	(11.2)	(23.0)	(104.1)	(328.0)	(970.5)	(1 279.2)	(23.4)	(171.9)
1,000 to 2,499 employees	-	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	72	0.4	4.1	0.4	0.7	3.1	6.5	5.6	12.0	0.7	0.8
Industry 2262-11, Finishing Own Fabrics												
Total	-	50	13.8	145.3	11.2	22.6	104.0	358.3	1 249.8	1 599.1	37.5	204.8
Establishments with an average of—												
1 to 4 employees	E4	9	(Z)	(Z)	(Z)	(Z)	(Z)	(S)	0.7	1.2	(Z)	(Z)
5 to 9 employees	E4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	-	3	(Z)	0.4	(Z)	0.1	0.2	0.6	0.9	1.5	(Z)	0.2
20 to 49 employees	-	5	0.2	3.5	0.1	0.3	1.5	7.3	28.7	37.1	0.4	5.4
50 to 99 employees	-	8	0.7	8.0	0.5	1.0	5.1	15.7	13.2	28.7	0.8	2.9
100 to 249 employees	-	10	(4.1)	(44.3)	(3.3)	(6.8)	(31.5)	(84.7)	(295.2)	(387.1)	(18.3)	(38.1)
250 to 499 employees	-	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	-	3	(8.9)	(89.0)	(7.2)	(14.3)	(65.4)	(250.3)	(911.1)	(1 143.5)	(17.9)	(158.0)
1,000 to 2,499 employees	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Industry 2262-51, Commission Finishing												
Total	-	235	23.4	250.9	19.3	41.2	189.4	433.7	369.2	805.1	38.3	61.7
Establishments with an average of—												
1 to 4 employees	E9	51	0.1	0.8	0.1	0.1	0.6	0.9	1.1	2.4	0.5	0.2
5 to 9 employees	E6	16	0.1	1.0	0.1	0.2	0.8	2.0	1.3	3.3	0.2	0.2
10 to 19 employees	E7	15	0.2	1.9	0.2	0.3	1.4	3.0	2.2	5.2	0.5	0.3
20 to 49 employees	E2	46	1.5	16.7	1.2	2.5	11.7	29.7	23.2	52.6	1.6	2.8
50 to 99 employees	-	31	2.2	27.1	1.9	4.1	20.9	46.5	27.0	74.3	2.7	4.5
100 to 249 employees	-	49	(14.5)	(153.5)	(11.8)	(25.2)	(115.3)	(274.0)	(255.0)	(531.6)	(27.4)	(39.7)
250 to 499 employees	-	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	-	6	(4.9)	(49.9)	(4.0)	(8.6)	(38.7)	(77.7)	(59.4)	(135.7)	(5.4)	(14.0)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	70	0.4	4.0	0.4	0.7	3.0	6.3	5.2	11.5	0.7	0.7

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2269, FINISHING PLANTS, N.E.C.												
Total	-	[5]183	**14.1**	**132.3**	**12.1**	**24.1**	**98.4**	**274.0**	**560.9**	**830.6**	**24.6**	**88.0**
Establishments with an average of—												
1 to 4 employees	E8	31	0.1	0.5	0.1	0.1	0.4	0.9	1.4	2.3	0.1	0.2
5 to 9 employees	E9	11	0.1	0.7	0.1	0.1	0.5	1.4	2.4	3.9	0.1	0.4
10 to 19 employees	E4	29	0.4	4.1	0.4	0.7	3.1	7.6	12.0	19.4	0.7	1.9
20 to 49 employees	E1	38	1.3	12.4	1.1	2.3	9.0	27.0	34.8	61.7	1.9	4.2
50 to 99 employees	E1	37	2.6	23.3	2.3	4.5	18.0	44.1	91.2	134.7	3.5	10.8
100 to 249 employees	-	23	3.5	32.4	3.0	5.9	23.6	69.3	167.4	236.8	4.8	25.3
250 to 499 employees	-	10	(6.2)	(59.1)	(5.2)	(10.5)	(43.8)	(123.7)	(251.7)	(371.9)	(13.4)	(45.2)
500 to 999 employees	-	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	48	0.4	3.2	0.3	0.6	2.4	5.5	10.8	17.4	0.5	1.7
Industry 2269-11, Finishing Own Yarns, Etc.												
Total	-	[5]128	**10.2**	**93.0**	**8.8**	**17.3**	**70.3**	**204.7**	**497.7**	**698.7**	**14.9**	**80.4**
Establishments with an average of—												
1 to 4 employees	E9	23	(0.1)	(0.9)	(0.1)	(0.2)	(0.7)	(1.8)	(3.6)	(5.5)	(0.6)	(0.5)
5 to 9 employees	E0	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E5	20	0.3	2.4	0.2	0.5	1.8	4.8	11.0	15.6	(D)	1.7
20 to 49 employees	E1	24	0.8	7.6	0.7	1.3	5.4	16.1	24.7	41.0	(2.0)	2.6
50 to 99 employees	E1	25	1.8	15.2	1.6	3.0	11.7	30.3	85.2	115.0	(D)	9.6
100 to 249 employees	-	16	2.4	22.1	2.1	4.0	16.0	49.1	140.1	189.5	2.2	23.1
250 to 499 employees	-	8	(4.8)	(44.8)	(4.1)	(8.3)	(34.6)	(102.6)	(233.1)	(332.2)	(10.0)	(42.8)
500 to 999 employees	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	35	0.2	2.4	0.2	0.4	1.8	5.2	10.1	15.2	0.3	1.5
Industry 2269-51, Commission Finishing												
Total	-	[5]54	**3.7**	**37.1**	**3.2**	**6.5**	**26.8**	**63.8**	**50.7**	**114.0**	**9.7**	**7.0**
Establishments with an average of—												
1 to 4 employees	E7	8	(Z)	(0.3)	(Z)	(0.1)	(0.2)	(0.5)	(0.2)	(0.7)	(0.2)	(Z)
5 to 9 employees	E5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E3	9	0.1	1.6	0.1	0.2	1.2	2.8	1.1	3.8	(D)	0.2
20 to 49 employees	-	14	0.5	4.8	0.4	0.9	3.6	10.9	10.0	20.7	(3.4)	1.6
50 to 99 employees	-	12	0.9	8.1	0.7	1.4	6.3	13.8	6.0	19.6	(D)	1.2
100 to 249 employees	-	6	0.8	8.1	0.7	1.6	6.2	14.8	14.7	29.4	2.6	1.6
250 to 499 employees	-	2	(1.4)	(14.2)	(1.1)	(2.2)	(9.3)	(21.1)	(18.6)	(39.7)	(3.5)	(2.4)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	13	0.1	0.8	0.1	0.2	0.6	1.4	0.8	2.2	0.2	0.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2261	**Finishing plants, cotton:**										
	Entire industry	210	20.8	211.4	17.3	35.7	162.2	351.3	414.8	759.5	29.2
	Establishments with 75 percent specialization or more	188	12.9	131.2	10.9	22.7	102.3	232.8	300.3	524.8	18.5
22617	Finished cotton broad woven fabrics, finished in other industries										
	Establishments with this product class primary	25	4.5	45.1	3.8	7.8	34.2	83.2	193.5	278.6	6.9
	Establishments with 75 percent specialization or more in class	15	2.4	23.2	2.0	4.1	18.2	42.2	123.9	166.9	3.1
22619	Commission finishing of cotton broad woven fabrics:										
	Establishments with this product class primary	152	15.7	161.6	13.1	27.1	124.3	262.5	210.7	462.5	20.8
	Establishments with 75 percent specialization or more in class	141	9.7	101.2	8.2	17.4	79.7	173.5	154.6	318.1	(D)
2262	**Finishing plants, synthetics:**										
	Entire industry	285	37.2	396.2	30.4	63.7	293.4	792.0	1 619.0	2 404.3	75.9
	Establishments with 75 percent specialization or more	234	23.4	259.3	19.1	41.1	191.3	465.2	783.2	1 251.4	46.9
22628	Finished manmade fiber and silk broad woven fabrics:										
	Establishments with this product class primary	34	14.0	146.8	11.3	22.8	104.4	365.9	1 253.6	1 612.1	38.9
	Establishments with 75 percent specialization or more in class	25	7.3	82.5	5.7	12.2	56.2	155.5	546.8	707.3	24.4
22629	Commission finishing of manmade fiber and silk broadwoven fabrics										
	Establishments with this product class primary	221	22.4	241.8	18.5	39.5	183.1	415.4	354.8	770.0	36.6
	Establishments with 75 percent specialization or more in class	196	16.2	177.3	13.4	29.0	135.3	306.3	229.4	534.0	22.3
2269	**Finishing plants, n.e.c.:**										
	Entire industry	183	14.1	132.3	12.1	24.1	98.4	274.0	560.9	830.6	24.6
	Establishments with 75 percent specialization or more	128	10.7	98.4	9.3	18.2	74.9	209.3	502.4	707.5	16.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis—Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2261	Finishing plants, cotton	1977	759.5	592.0	118.0	49.5	83	1,513.7	592.0	921.7	[1]39
		1972	623.3	468.8	124.6	29.9	79	1,151.3	468.8	682.5	[1]41
		1967	893.9	635.1	215.1	43.7	75	1,087.0	635.1	451.9	[1]58
2262	Finishing plants, manmade fiber and silk	1977	2,404.3	1,860.9	471.4	72.0	80	3,264.7	1,860.9	1,403.8	[2]57
		1972	1,373.1	1,015.5	308.2	49.4	77	1,790.7	1,015.5	775.2	[2]57
		1967	550.2	463.7	49.9	36.6	90	1,022.7	463.7	559.0	[2]45
2269	Finishing plants, n.e.c	1977	830.6	692.2	34.3	104.1	95	1,616.6	692.2	924.4	[3]43
		1972	637.3	432.2	35.5	169.6	92	801.9	432.2	369.7	[3]54
		1967	290.9	181.4	33.9	75.6	84	350.4	181.4	169.0	[3]52

n.e.c. Not elsewhere classified.

[1]Included in this industry are finished cotton broad woven fabrics (except commission finishing) which are also primary to Industry 2211, Weaving Mills, Cotton. Coverage ratio computed on basis of including both industries to which finished cotton broad woven fabrics are primary would total 68 percent. In 1972 and 1967, ratios were 70 percent and 90 percent, respectively.

[2]Included in this industry are finished manmade fiber and silk fabrics (except commission finishing) which are also primary to Industry 2221, Weaving Mills, Manmade Fiber and Silk. Coverage ratio computed on basis of including both industries to which finished manmade fiber and silk fabrics are primary would total 74 percent. In 1972 and 1967, ratios were 84 percent and 69 percent, respectively.

[3]Included in this industry are finished yarns, except wool, which are also primary to Industry 2281, Yarn Mills, Except Wool. Coverage ratio computed on basis of including both industries to which finished yarns, except wool, are primary would total 95 percent. In 1972 and 1967, ratios were 80 percent and 82 percent, respectively.

Table 5c. Industry-Product Analysis—Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Finishing plants, cotton (SIC 2261)	Finishing plants, manmade fiber and silk (SIC 2262)	Finishing plants, n.e.c. (SIC 2269)	Other industries
	Total	(X)	759.5	2,404.3	830.6	(X)
	Primary products	(X)	592.0	1,860.9	692.2	(X)
	Secondary products	(X)	118.0	471.4	34.3	(X)
	Miscellaneous receipts	(X)	49.5	72.0	104.1	(X)
2261-22117	Finished cotton broad woven fabrics, including commission finishing	1,513.7	592.0	(D)	(D)	[1]792.4
22617-22117	Finished cotton broad woven fabrics	1,026.2	204.9	(D)	(D)	766.3
22619	Commission finishing of cotton broad woven fabrics	477.9	377.4	(D)	(D)	26.1
22610	Finished cotton broad woven fabrics, n.s.k.	9.6	9.6	-	-	(Z)
2262-22218	Finished manmade fiber and silk broad woven fabrics, including commission finishing	3,264.7	(D)	1,860.9	(D)	[2]1,299.1
22628-22618	Finished manmade fiber and silk broad woven fabrics	2,430.5	(D)	1,207.0	-	(D)
22629	Commision finishing of manmade fiber and silk broad woven fabrics	830.5	(D)	650.3	(D)	(D)
22620	Finished manmade fiber broad woven fabrics, n.s.k.	3.7	-	3.6	-	.1
22690	Finished yarn, raw stock, and narrow fabrics except knit and wool, not spun, thrown, woven, or braided in the same establishment	1,616.6	(D)	(D)	692.2	[3]909.1
	Other shipments by 4-digit product group:					
2231-	Broad woven wool fabrics	(X)	-	(D)	(D)	(X)
2257-	Circular knit fabrics	(X)	-	(D)	(D)	(X)
2258-	Warp knit fabrics	(X)	-	(D)	-	(X)
2272-	Tufted carpets and rugs	(X)	-	(D)	-	(X)
2281-	Yarn, except wool	(X)	-	-	(D)	(X)
2299-	Textile goods, n.e.c.	(X)	-	(D)	-	(X)
2392-	Housefurnishings, n.e.c.	(X)	-	(D)	-	(X)
	Miscellaneous receipts:					
93000 00	Contract work	(X)	7.0	21.7	102.6	(X)
99980 98	Other miscellaneous receipts	(X)	7.5	10.9	1.4	(X)
99989 00	Resales	(X)	35.0	39.4	.1	(X)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2261-	2211 Weaving mills, cotton	(D)
2262-	2211 Weaving mills, cotton	(D)
	2221 Weaving mills, manmade fiber and silk	33.6
	2257 Circular knit fabric mills	(D)
	2392 Housefurnishings, n.e.c.	(D)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products--Con.	
2269-	2257 Circular knit fabric mills	(D)
	2272 Tufted carpets and rugs	(D)
	2281 Yarn mills, except wool	(D)
	2282 Throwing and winding mills	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Includes shipments of $762.0 million of product class 22117.

[2]Includes shipments of $1,127.0 million of product class 22218.

[3]Includes shipments of $851.7 million of industry 2281 products.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972			
			Number of companies with shipments of $100,000 or more	Product shipments including interplant transfers[1]		Product shipments including interplant transfers		Interplant transfers	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)
	FINISHED COTTON BROAD WOVEN FABRICS, INCLUDING COMMISSION RECEIPTS FOR JOB FINISHING								
2261- -- 22117 --	Total	Mil. fin. lin. yd.	(NA)	(X)	[2]1,513.7	(X)	[2]1,151.3	(X)	(X)
22117 -- 22617 --	Finished cotton broad woven fabrics, excluding commission finishing[4]		(NA)	[3]1,433.1	1,026.2	[3]1,579.4	708.8	119.4	69.0
22117 --	Finished in weaving mills		(NA)	[3]667.1	762.0	[3]767.4	445.4	51.7	17.3
22617 --	Finished in other industries		(NA)	[3]766.0	264.2	[3]812.0	263.4	67.7	51.7
22117 11 22617 11	Bleached and white finished		23	688.6	243.9	770.9	154.2	35.8	10.1
22117 31 22617 31	Plain dyed and finished		32	504.6	612.2	516.7	371.8	24.3	18.5
22117 51 22617 51	Printed and finished		16	43.7	37.9	156.5	78.9	(D)	(D)
22117 61 22617 61	Other finished cotton fabrics, not bleached, dyed, or printed at same establishment (flameproofed, mildew-proofed, mercerized, embossed, etc.)		8	89.8	129.0	135.3	89.8	(D)	(D)
22117 00 22617 00	Finished cotton broad woven fabrics, n.s.k.		(NA)	(X)	3.2	(X)	14.1	(X)	(X)
22619 --	Commission finishing of cotton broad woven fabrics		(NA)	1,674.1	[2]477.9	3,100.8	[2]422.6	271.3	30.8
22619 11	Bleached and white finished		29	381.5	63.1	731.6	52.4	124.1	8.5
22619 31	Plain dyed and finished		62	702.6	204.1	1,328.2	199.3	103.8	18.7
22619 51	Printed and finished		26	538.3	162.9	911.8	141.3	(D)	(D)
22619 71	Other finished cotton fabrics, not bleached, dyed, or printed at same establishment (flameproofed, mildew-proofed, mercerized, embossed, etc.)		10	51.7	12.9	129.2	12.7	(D)	(D)
22619 00	Commission finishing of cotton broad woven fabrics, n.s.k.		(NA)	(X)	19.9	(X)	16.9	(X)	(X)
22619 02	Commission finishing of cotton broad woven fabrics, n.s.k., typically for establishments with less than 5 employees		(NA)	(X)	15.0	(X)	(X)	(X)	(X)
22610 00	Finishing receipts, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	3.9	(X)	[4]15.4	(X)	(X)
22610 02	Finishing receipts, n.s.k., typically for establishments with less than 5 employees (see note)	Mil. fin. lin. yd.	(NA)	(X)	5.7	(X)	[4]4.5	(X)	(X)

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972			
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Quantity of production for all purposes	Product shipments		Produced and consumed in same establishment
				Quantity	Value (million dollars)		Quantity	Value (million dollars)	
	FINISHED MANMADE FIBER AND SILK BROAD WOVEN FABRICS, INCLUDING COMMISSION RECEIPTS FOR JOB FINISHING								
2262- -- 22218 --	Total	Million fin. lin. yd.	(NA)	(X)	[5]3,264.7	(X)	(X)	[5]1,790.7	(X)
22218 -- 22628 --	Finished manmade fiber and silk broad woven fabrics, excluding commission finishing		(NA)	[3]2,047.4	2,430.5	1,693.3	[3]1,436.5	1,150.1	220.7
22218 --	Finished in weaving mills		(NA)	[3]733.9	1,127.0	567.9	[3]487.4	555.6	101.9
22628 --	Finished in other industries		(NA)	[3]1,313.5	1,303.5	1,071.4	[3]949.1	594.5	118.8
22218 10 22628 20	Bleached and white finished		16	783.2	714.1	447.0	366.1	193.8	98.3
22218 30 22628 30	Plain dyed and finished		38	868.4	1,129.3	876.5	827.6	676.0	40.3
22218 50 22628 50	Printed and finished		21	160.3	173.9	174.7	94.2	109.1	(D)
22218 61 22628 61	Other finished manmade fiber and silk fabrics, not bleached, dyed, or printed at same establishment (flameproofed, mildew-proofed, mercerized, embossed, etc.)		27	235.5	408.7	141.1	148.6	157.1	(D)
22628 00	Finished manmade fiber and silk fabrics, excluding commission finishing, n.s.k.		(NA)	(X)	4.5	(X)	(X)	14.1	(X)
22629 --	Commission finishing of manmade fiber and silk broad woven fabrics.		(NA)	3,370.0	[5]830.5	3,747.2	3,735.5	[5]632.4	(D)
22629	Bleached and white finished		35	532.7	60.0	530.7	519.0	45.9	-
22629 30	Plain dyed and finished		72	1,725.8	388.1	1,841.0	1,841.3	261.1	(D)
22629 50	Printed and finished		54	980.3	279.9	1,161.0	1,161.4	236.7	-
22629 61	Other commission finished manmade fiber fabrics, not bleached, dyed, or printed at same establishment (flameproofed, mildew-proofed, mercerized, embossed, etc.)	Million fin. lin. yd.	13	131.2	50.8	214.5	213.8	55.0	(D)
22629 00	Commission finishing of manmade fiber and silk broad woven fabrics, n.s.k.	.....	(NA)	(X)	40.2	(X)	(X)	33.7	(X)
22629 02	Commission finishing of manmade fiber and silk broad woven fabrics, n.s.k., typically for establishments with less than 5 employees	.....	(NA)	(X)	11.5	(X)	(X)	(X)	(X)
22620 00	Finished manmade fiber and silk broad woven fabrics, including commission receipts, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	3.2	(X)	(X)	[4]8.1	(X)
22620 02	Finished manmade fiber and silk broad woven fabrics, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	.5	(X)	(X)	[4].1	(X)

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[6]	Value (million dollars)	Quantity	Value (million dollars)
2269 -- 2281 pt.	FINISHING YARN, RAW STOCK, AND NARROW FABRICS, EXCEPT KNIT AND WOOL, NOT SPUN, THROWN, WOVEN, OR BRAIDED IN SAME ESTABLISHMENT	.....	(NA)	(X)	1,616.6	(X)	801.9
	Yarns bleached:						
22812 71	Finished in plants with spinning facilities	Million lb....	5	7.2	10.7	27.6	30.6
22690 12	Finished from purchased yarns		11	**8.8	15.6		
	Yarns dyed:						
	Carded cotton:						
22811 87	Finished in plants with spinning facilities		16	57.5	58.7	37.3	27.9
22690 21	Finished from purchased yarns		13	39.7	58.1	30.0	24.9
	Combed cotton:						
22812 51	Finished in plants with spinning facilities		9	29.1	55.3	44.9	60.2
22690 23	Finished from purchased yarns		10				
	Rayon and/or acetate:						
22813 43	Finished in plants with spinning facilities		10	26.3	35.8	21.8	20.6
22690 26	Finished from purchased yarns		12	32.8	34.0	23.7	22.6
	Spun noncellulosic and silk yarns (nylon, acrylic, polyester, etc.):						
	Finished in plants with spinning facilities:						
22814 41	Polyester spun yarns		30	265.1	284.2	41.6	32.2
22814 81	All other spun noncellulosic and silk yarn		48	353.8	431.4	165.8	181.5
	Finished from purchased yarns:						
	Polyester spun yarns:						
22690 31	Polyester blends with cotton		12	60.1	63.0	86.8	133.6
22690 33	All other polyester		18	76.7	129.2		
22690 30	Acrylic and/or modacrylic		11	39.4	78.4	109.3	154.8
22690 34	All other spun noncellulosic and silk yarn		26	152.7	223.3		
	Mercerized cotton yarns:						
22812 61	Mercerized in plants with spinning facilities		2	19.5	47.5	15.4	22.0
22690 39	Mercerized from purchased yarns		9				
22690 42	Raw stock, bleached or dyed, except wool		8	(S)	21.1	30.2	13.6
22690 61	Printed plastic film	Million lb....	2				
22690 71	Finished braided or woven narrow fabrics	.....	13	(X)	23.7	(X)	17.4
22690 00	Textile finishing, n.e.c., n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	35.4	(X)	56.5
22690 02	Textile finishing, n.e.c., n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	15.2	(X)	3.5

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]Data are value of receipts.

[3]Excludes quantity of finished fabrics, n.s.k.

[4]Includes value of finished fabrics, n.s.k. and commission finishing, n.s.k.

[5]Includes receipts for commission finishing of manmade fiber and silk broad woven fabrics.

[6]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
22617, FINISHED COTTON BROADWOVEN FABRICS (NOT FINISHED IN WEAVING MILLS)		
United States	[1]264.2	[1]263.4
New England Division:		
Massachusetts	43.7	57.7
South Atlantic Division:		
South Carolina	112.5	FF
22619, COMMISSION FINISHED OF COTTON BROADWOVEN FABRICS		
United States	477.8	422.6
New England Division:		
Massachusetts	36.9	FF
Rhode Island	17.3	4.5
Connecticut	32.4	CC
Middle Atlantic Division:		
New York	9.5	EE
New Jersey	31.9	16.6
Pennsylvania	6.1	BB
East North Central Division:		
Illinois	4.4	CC
South Atlantic Division:		
North Carolina	78.5	GG
South Carolina	126.1	172.5
Georgia	52.9	FF
22628, FINISHED MANMADE FIBER AND SILK BROADWOVEN FABRICS		
United States	[2]1,303.5	[2]594.5
New England Division:		
Massachusetts	16.1	CC
22628, FINISHED MANMADE FIBER AND SILK BROADWOVEN FABRICS--Con.		
South Atlantic Division:		
North Carolina	231.1	117.3
South Carolina	516.4	282.5
Georgia	135.8	EE
22629, COMMISSION FINISHED MANMADE FIBER AND SILK BROADWOVEN FABRICS		
United States	830.5	632.4
New England Division:		
Massachusetts	95.0	GG
Rhode Island	28.6	FF
Connecticut	13.5	43.2
Middle Atlantic Division:		
New York	65.4	FF
New Jersey	102.9	115.9
Pennsylvania	15.5	EE
South Atlantic Division:		
Virginia	16.2	EE
North Carolina	128.5	85.0
South Carolina	252.2	181.9
Georgia	58.6	15.5
East South Central Division:		
Tennessee	5.3	(NA)
Pacific Division:		
California	7.1	CC

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available.

[1]Excludes shipments of product class 22117 from product class 22617, "Finished Cotton Broadwoven Fabrics."
[2]Excludes shipments of product class 22218 from product class 22628, "Finished Manmade Fiber and Silk Broadwoven Fabrics."

Table 6c. Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2261-22117	Finished cotton broad woven fabrics, including commission finishing	1,513.7	1,631.5	1,296.9	1,260.7	1,225.4	1,151.3	1,087.0	1,113.2
22117	Made in weaving mills	762.0	899.9	657.7	621.5	490.0	445.4	375.7	1,113.2
2261-22117	Not made in weaving mills	751.7	731.6	639.2	639.2	735.4	705.9	711.3	
22617	Finished cotton broad woven fabrics, excluding commission finishing	1,026.2	1,167.6	894.0	883.1	801.0	708.8	685.3	724.1
22117	Made in weaving mills	762.0	899.9	657.7	621.5	490.0	445.4	375.7	724.1
22617	Not made in weaving mills	264.2	267.7	236.3	261.6	311.0	263.4	309.6	
22619	Commission finishing of cotton broad woven fabrics	477.9	453.0	399.3	375.5	415.1	422.6	397.0	371.8
22610	Finished cotton broad woven fabrics, n.s.k.	9.6	(S)	(3.6)	(2.1)	(9.3)	19.9	4.7	17.3
2262-22218	Finished manmade fiber and silk broad woven fabrics, including commission finishing	3,264.7	2,803.4	2,241.7	2,241.6	1,971.7	1,790.7	1,022.7	617.1
22218	Made in weaving mills	1,127.0	923.9	652.3	682.0	643.8	555.6	413.1	617.1
2262-22218	Not made in weaving mills	2,137.7	1,879.5	1,589.4	1,559.6	1,327.9	1,235.1	609.6	
22628	Finished manmade fiber and silk broad woven fabrics, excluding commission finishing	2,430.5	2,024.2	1,560.3	1,563.6	1,303.1	1,150.1	591.1	336.9
22218	Made in weaving mills	1,127.0	923.9	652.3	682.0	643.8	555.6	413.1	336.9
22628	Not made in weaving mills	1,303.5	1,100.3	908.0	881.6	659.3	594.5	178.0	
22629	Commission finished manmade fiber and silk broad woven fabrics	830.5	759.3	668.4	662.0	664.5	632.4	417.2	276.9
22620	Finished manmade fiber and silk broad woven fabrics, n.s.k.	3.7	(19.9)	(13.0)	(16.0)	4.1	8.2	14.4	3.3
22690	Finishing plants, n.e.c.	[2]692.2	722.0	561.1	587.7	559.7	[3]522.8	[4]211.7	[5]160.6

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]Excludes shipments of $473.7 million from Industry 2281, Yarn Mills, Except Wool.

[3]Excludes shipments of $279.0 million from Industry 2281, Yarn Mills, Except Wool.

[4]Excludes shipments of $138.7 million from Industry 2281, Yarn Mills, Except Wool.

[5]Excludes shipments of $56.0 million from Industry 2281, Yarn Mills, Except Wool.

Table 7. **Materials Consumed by Kind: 1977 and 1972**

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2261, FINISHING PLANTS, COTTON					
	Materials, containers, and supplies	.....	(X)	320.5	(X)	272.2
220211	Purchased broadwoven fabrics (piece goods), including transfers from other plants of the same company	Mil. lin. yd...	242.4	132.2	659.8	105.0
280031	Dyes, lakes, and toners	.....	(X)	110.9	(X)	82.5
970099	All other materials and components, parts, containers, and supplies	.....	(X)	53.3	(X)	72.2
971000	Materials, containers, and supplies, n.s.k.[1]	.....	(X)	24.1	(X)	12.5
	INDUSTRY 2262, FINISHING PLANTS, SYNTHETICS					
	Materials, containers, and supplies	.....	(X)	1,440.5	(X)	765.4
220211	Purchased broadwoven fabrics (piece goods), including transfers from other plants of the same company	Mil. lin. yd...	1,356.4	1,011.7	1,062.0	482.0
280031	Dyes, lakes, and toners	.....	(X)	216.7	(X)	134.9
970099	All other materials and components, parts, containers, and supplies	.....	(X)	204.7	(X)	130.0
971000	Materials, containers, and supplies, n.s.k.[1]	.....	(X)	7.4	(X)	18.5
	INDUSTRY 2269, FINISHING PLANTS, N.E.C.					
	Materials, containers, and supplies	.....	(X)	518.0	(X)	346.6
228015	Purchased yarn, all fibers, including transfers from other plants of the same company	Mil. lin. yd...	344.6	386.6	259.1	237.0
280031	Dyes, lakes, and toners	.....	(X)	56.0	(X)	45.7
970099	All other materials and components, parts, containers, and supplies	.....	(X)	41.1	(X)	37.1
971000	Materials, containers, and supplies, n.s.k.[1]	.....	(X)	34.3	(X)	26.8

N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.
[1]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

Floor Covering Mills

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DESCRIPTION OF INDUSTRIES

FLOOR COVERING MILLS

This report shows 1977 Census of Manufactures Statistics for establishments classified in each of the following industries:

SIC Code and Title

2271 Woven Carpets and Rugs
2272 Tufted Carpets and Rugs
2279 Carpets and Rugs, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2271, WOVEN CARPETS AND RUGS

This industry comprises establishments primarily engaged in weaving carpets and rugs from any textile yarn. Important products of this industry include Axminster, Wilton, velvet, and similar woven carpets and rugs; and woven automobile and aircraft floor coverings.

The total value of shipments for establishments classified in the Woven Carpets and Rugs industry amounted to $139 million in 1977, a decrease of 35 percent from 1972. The value of shipments of products classified as primary to the industry was $168 million, a decrease of 17 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $47 million in 1977, was 49 percent below value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 2.8 thousand employees, a decrease of 57 percent from 1972. The leading States in employment were South Carolina, North Carolina, Pennsylvania, and Georgia, accounting for approximately 90 percent of the industry's 1977 employment. Data for Pennsylvania and North Carolina have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The 1977 census obtained data on shipments of woven carpets and rugs only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the shipments of woven carpets and rugs are reported quarterly in the Census Bureau's Current Industrial Reports (CIR) MQ-22Q, Carpets and Rugs. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 13 percent of total value of shipments.

INDUSTRY 2272, TUFTED CARPETS AND RUGS

This industry comprises establishments primarily engaged in the manufacture of tufted carpets and rugs from any textile fiber. Important products of this industry include tufted carpets, rugs, scatter rugs, and bathmats and bathmat sets except terry woven. Finishers of these products also are included in this industry.

The total value of shipments for establishments classified in the Tufted Carpets and Rugs industry amounted to $4,521 million in 1977, an increase of 63 percent from 1972. The value of shipments of products classified as primary to the industry was $4,172 million, an increase of 58 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $1,438 million in 1977, was 55 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 50.2 thousand employees, an increase of less than 1 percent from 1972. The leading States in employment were Georgia, California, South Carolina, and Pennsylvania, accounting for approximately 85 percent of the industry's 1977 employment. These same States were in the

forefront for 1972 when they accounted for approximately 80 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

The 1977 census obtained data on shipments of tufted carpets and rugs only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the shipments of tufted carpets and rugs are reported quarterly in the Census Bureau's Current Industrial Reports (CIR) MQ-22Q, Carpet and Rugs. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of total value of shipments.

INDUSTRY 2279, CARPETS AND RUGS, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of rugs, carpets, art squares, floor mattings, needle punch carpeting, and door mats and mattings from twisted paper, grasses, reeds, coir, sisal, jute or rugs. Establishments primarily engaged in the manufacture of hard surface floor coverings, except rubber and cork, are classified in industry 3996.

The total value of shipments for establishments classified in the Carpets and Rugs, N.E.C. industry amounted to $115 million in 1977, a decrease of 24 percent from 1972. The value of shipments of products classified as primary to the industry was $93 million, a decrease of 12 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $49 million in 1977, was 13 percent below value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 2.8 thousand employees, a decrease of 13 percent from 1972. The leading States in employment were Mississippi, Pennsylvania, Wisconsin, and North Carolina, accounting for approximately 75 percent of the industry's 1977 employment. Data for Mississippi, Pennsylvania, and Wisconsin have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The 1977 census obtained data on shipments of carpets and rugs, n.e.c. only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the shipments of carpets and rugs, n.e.c. are reported quarterly in the Census Bureau's Current Industrial Reports (CIR) MQ-22Q, Carpets and Rugs. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 11 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2271, WOVEN CARPETS AND RUGS																
1977 Census--	71	71	16	2.8	24.8	2.5	4.7	20.0	47.1	93.8	138.7	1.1	(NA)	26.9	(D)	81
1976 ASM----	(NA)	(NA)	(NA)	4.8	43.9	4.0	8.0	33.8	79.2	124.7	204.0	4.8	94.9	43.2	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	4.8	40.2	4.0	7.8	31.3	70.2	105.8	179.9	3.1	97.4	45.4	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	5.9	47.3	4.9	10.0	37.3	98.5	117.1	211.2	7.6	97.7	58.4	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	6.3	46.1	5.3	11.5	36.5	107.8	115.8	214.5	5.9	92.7	58.3	(NA)	(NA)
1972 Census--	64	64	18	6.5	44.5	5.6	11.6	35.2	93.2	119.1	212.3	3.2	88.3	44.4	89	85
1971 ASM----	(NA)	(NA)	(NA)	7.6	46.9	5.9	12.4	35.9	87.0	143.1	235.8	2.6	96.5	48.1	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	8.5	50.6	7.1	14.3	39.0	98.1	150.3	251.6	4.2	109.8	53.1	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	9.9	58.9	8.4	17.9	46.2	114.3	169.6	286.1	5.1	106.3	59.2	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	10.0	55.8	8.6	18.1	43.9	108.8	165.5	276.7	6.6	107.7	61.1	(NA)	(NA)
1967 Census--	55	61	24	8.7	47.2	7.3	15.3	35.8	104.7	131.4	240.2	6.3	102.8	59.6	84	84
1966 ASM----	(NA)	(NA)	(NA)	9.7	50.7	8.1	17.1	37.7	115.7	172.9	283.8	5.6	(NA)	72.6	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	10.5	53.7	8.7	18.5	39.9	107.0	177.5	283.9	4.7	(NA)	70.7	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	12.1	59.3	10.1	21.3	43.9	117.6	187.5	306.8	7.6	138.3	79.7	(NA)	(NA)
1963 Census--	56	64	31	13.4	63.0	11.0	23.4	47.0	120.0	193.0	312.5	4.2	135.3	84.8	77	92
INDUSTRY 2272, TUFTED CARPETS AND RUGS																
1977 Census--	397	449	251	50.2	506.5	39.4	82.2	341.1	1 438.2	3 113.1	4 520.7	78.7	(NA)	696.8	98	99
1976 ASM----	(NA)	(NA)	(NA)	42.3	394.4	34.0	68.8	265.1	1 089.9	2 436.1	3 486.1	52.8	757.7	563.7	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	41.7	360.8	32.8	65.2	234.7	937.4	2 014.1	2 960.7	45.0	773.8	537.0	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	47.7	378.6	38.0	75.6	251.9	978.5	2 072.2	3 070.3	91.2	713.2	562.7	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	51.5	395.9	43.5	91.7	272.1	1 124.2	2 177.4	3 338.6	81.1	701.4	601.8	(NA)	(NA)
1972 Census--	333	381	236	50.1	348.0	40.3	83.1	243.2	926.8	1 889.5	2 775.2	67.1	659.0	491.8	97	98
1971 ASM----	(NA)	(NA)	(NA)	40.9	277.0	32.6	69.5	188.0	756.8	1 523.1	2 271.0	47.5	516.7	431.4	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	40.9	255.8	32.8	69.0	171.3	674.7	1 320.1	1 997.4	72.4	482.0	384.2	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	40.8	241.6	33.6	72.0	168.2	679.6	1 348.0	1 976.0	92.8	427.0	369.4	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	35.6	202.7	29.1	63.8	143.6	582.2	1 188.5	1 715.7	49.6	299.5	321.9	(NA)	(NA)
1967 Census--	210	244	153	31.8	165.7	26.1	56.5	118.4	449.4	982.7	1 426.9	33.6	263.9	224.2	96	99
1966 ASM----	(NA)	(NA)	(NA)	28.2	132.8	23.5	51.5	98.9	398.2	825.4	1 206.4	26.9	(NA)	205.3	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	26.4	121.8	22.3	50.2	92.1	342.5	800.7	1 121.3	27.0	(NA)	188.4	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	24.9	104.1	20.2	44.3	77.8	325.4	732.7	1 043.3	26.7	135.5	146.1	(NA)	(NA)
1963 Census--	167	181	121	19.9	80.5	17.2	36.4	61.3	259.3	551.8	801.8	11.5	115.6	116.3	96	96
INDUSTRY 2279, CARPETS AND RUGS, N.E.C.																
1977 Census--	73	72	18	2.8	25.3	2.4	4.5	18.6	44.8	73.1	115.2	2.6	(NA)	29.9	(D)	74
1976 ASM----	(NA)	(NA)	(NA)	2.1	17.3	1.7	3.0	11.7	41.4	64.2	104.8	2.7	32.9	19.9	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	2.1	15.3	1.7	3.0	10.4	32.2	64.8	99.4	4.5	32.6	18.9	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	3.4	25.0	2.7	5.2	17.0	63.8	110.1	177.1	5.9	44.7	29.0	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	2.9	21.0	2.3	4.6	14.3	52.5	92.5	145.2	3.6	45.4	23.2	(NA)	(NA)
1972 Census--	78	83	26	3.2	22.7	2.5	4.9	15.6	56.0	102.4	157.9	4.3	44.5	24.6	62	71
1971 ASM----	(NA)	(NA)	(NA)	4.5	28.2	3.5	7.1	19.0	64.7	109.7	172.0	7.5	64.0	26.7	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	5.3	34.0	4.2	8.6	23.4	74.3	124.7	200.6	10.0	77.9	31.5	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	4.3	26.4	3.5	7.1	18.4	59.0	91.6	147.2	10.2	47.9	30.3	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	3.9	21.7	3.2	6.5	15.3	57.7	77.7	130.4	11.9	39.7	25.4	(NA)	(NA)
1967 Census--	78	80	32	3.1	14.9	2.6	5.2	11.2	45.3	47.1	90.3	5.6	17.1	18.6	83	69
1966 ASM----	(NA)	(NA)	(NA)	3.4	15.9	3.0	6.0	12.2	30.6	44.6	75.4	2.3	(NA)	16.8	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	3.0	11.9	2.6	5.0	8.6	21.2	24.2	45.0	1.3	(NA)	5.6	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	2.7	10.2	2.4	4.5	7.7	18.7	17.0	35.4	0.9	8.3	5.0	(NA)	(NA)
1963 Census--	103	104	35	2.4	8.9	2.1	4.1	6.8	15.6	14.3	29.6	0.5	7.4	3.9	89	46

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2271, WOVEN CARPETS AND RUGS										
1977 Census--	8 851	(NA)	87	1 907	4.27	67	85	(NA)	16 804	52	10.06
1976 ASM----	9 145	19 770	83	2 000	4.22	61	82	46	16 500	55	9.90
1975 ASM----	8 375	20 291	83	1 950	4.01	58	81	54	14 625	57	9.00
1974 ASM----	8 016	16 559	83	2 040	3.73	55	77	46	16 694	48	9.85
1973 ASM----	7 317	14 714	84	2 169	3.17	53	75	43	17 111	42	9.37
1972 Census--	6 846	13 584	86	2 071	3.03	56	77	41	14 338	47	8.03
1971 ASM----	6 171	12 697	77	2 101	2.89	60	80	40	11 447	53	7.01
1970 ASM----	5 952	12 917	83	2 014	2.72	59	79	43	11 541	51	6.86
1969 ASM----	5 949	10 737	84	2 130	2.58	59	79	37	11 545	51	6.38
1968 ASM----	5 580	10 770	86	2 104	2.42	59	79	38	10 880	51	6.01
1967 Census--	5 425	11 816	83	2 095	2.33	54	74	42	12 034	45	6.84
1966 ASM----	5 226	(NA)	83	2 111	2.20	60	78	(NA)	11 927	43	6.76
1965 ASM----	5 114	(NA)	82	2 126	2.15	62	81	(NA)	10 190	50	5.78
1964 ASM----	4 900	11 429	83	2 108	2.06	61	80	45	9 719	50	5.52
1963 Census--	4 701	10 097	82	2 127	2.00	61	81	43	8 955	52	5.12
	INDUSTRY 2272, TUFTED CARPETS AND RUGS										
1977 Census--	10 092	(NA)	78	2 084	4.14	68	80	(NA)	28 657	35	17.49
1976 ASM----	9 323	17 912	80	2 023	3.85	69	81	21	25 765	36	15.84
1975 ASM----	8 652	18 556	78	1 987	3.59	68	80	26	22 479	38	14.37
1974 ASM----	7 937	14 951	79	1 989	3.33	67	79	23	20 513	38	12.94
1973 ASM----	7 687	13 619	84	2 108	2.96	65	77	21	21 829	35	12.25
1972 Census--	6 946	13 153	80	2 062	2.92	68	80	23	18 499	37	11.15
1971 ASM----	6 772	12 633	79	2 131	2.70	67	79	22	18 503	36	10.88
1970 ASM----	6 254	11 784	80	2 103	2.48	66	78	24	16 496	37	9.77
1969 ASM----	5 921	10 465	82	2 142	2.33	68	80	21	16 656	35	9.43
1968 ASM----	5 693	8 412	81	2 192	2.25	69	81	17	16 353	34	9.12
1967 Census--	5 210	8 298	82	2 164	2.09	68	80	18	14 132	36	7.95
1966 ASM----	4 709	(NA)	83	2 191	1.92	68	79	(NA)	14 120	33	7.73
1965 ASM----	4 613	(NA)	84	2 251	1.83	71	82	(NA)	12 973	35	6.82
1964 ASM----	4 180	5 441	81	2 193	1.75	70	80	12	13 068	31	7.34
1963 Census--	4 045	5 809	86	2 116	1.68	68	78	14	13 030	31	7.12
	INDUSTRY 2279, CARPETS AND RUGS, N.E.C.										
1977 Census--	8 953	(NA)	83	1 911	4.12	63	85	(NA)	15 833	56	9.91
1976 ASM----	8 238	15 666	80	1 764	3.90	61	77	31	19 714	41	13.80
1975 ASM----	7 285	15 523	80	1 764	3.46	65	80	32	15 333	47	10.73
1974 ASM----	7 352	13 147	79	1 925	3.26	62	76	25	18 764	39	12.26
1973 ASM----	7 241	15 655	79	2 000	3.10	63	78	31	18 103	40	11.41
1972 Census--	7 093	13 906	78	1 960	3.18	64	79	28	17 500	40	11.42
1971 ASM----	6 266	14 222	77	2 028	2.67	63	80	37	14 377	43	9.11
1970 ASM----	6 415	14 698	79	2 047	2.72	62	79	38	14 018	45	8.63
1969 ASM----	6 139	11 139	81	2 028	2.59	62	80	32	13 720	44	8.30
1968 ASM----	5 564	10 179	82	2 031	2.35	59	76	30	14 794	37	8.87
1967 Census--	4 806	5 516	83	2 000	2.15	52	68	18	14 612	32	8.71
1966 ASM----	4 676	(NA)	88	2 000	2.03	59	80	(NA)	9 000	51	5.10
1965 ASM----	3 966	(NA)	86	1 923	1.72	53	80	(NA)	7 066	56	4.24
1964 ASM----	3 777	3 074	88	1 875	1.71	48	76	23	6 925	54	4.15
1963 Census--	3 708	3 083	87	1 952	1.65	48	78	25	6 500	57	3.80

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2271, WOVEN CARPETS AND RUGS													
United States	E1	71	16	2.8	24.8	2.5	4.7	20.0	47.1	93.8	138.7	1.1	6.5	93.2
Middle Atlantic Division:													
Pennsylvania	-	10	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:													
North Carolina	-	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Carolina	-	11	5	1.2	10.2	1.1	1.9	8.2	18.6	41.0	58.0	(D)	(NA)	(D)
Georgia	E9	16	1	0.2	1.3	0.1	0.2	0.9	3.0	7.2	(D)	0.1	(NA)	(NA)
INDUSTRY 2272, TUFTED CARPETS AND RUGS													
United States	-	449	251	50.2	506.5	39.4	82.2	341.1	1 438.2	3 113.1	4 520.7	78.7	50.1	926.8
Middle Atlantic Division:													
New York	E6	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
New Jersey	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pennsylvania	-	6	5	2.6	31.8	2.1	4.4	25.4	54.5	114.1	166.7	(D)	3.8	46.1
East North Central Division:													
Indiana	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Illinois	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:													
Nebraska	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:													
Virginia	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
North Carolina	-	19	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Carolina	-	10	8	3.2	28.9	2.7	5.4	21.9	78.1	190.9	265.8	4.0	3.5	54.0
Georgia	-	285	161	30.0	296.9	23.9	50.0	199.3	892.3	1 964.7	2 844.2	52.0	(NA)	(D)
East South Central Division:													
Kentucky	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Tennessee	-	11	6	1.3	14.4	1.1	2.4	10.1	23.7	78.2	102.3	(D)	(NA)	(D)
Alabama	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:													
Arkansas	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Oklahoma	-	8	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:													
California	-	71	37	5.7	64.2	4.0	7.9	36.1	162.8	351.6	505.2	6.0	(NA)	(D)
INDUSTRY 2279, CARPETS AND RUGS, N.E.C.													
United States	E1	72	18	2.8	25.3	2.4	4.5	18.6	44.8	73.1	115.2	2.6	3.2	56.0
New England Division:													
Rhode Island	E3	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:													
Pennsylvania	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
East North Central Division:													
Wisconsin	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:													
North Carolina	-	12	2	0.3	2.0	0.3	0.4	1.4	3.7	3.6	7.3	0.1	(NA)	(D)
Georgia	E1	17	4	0.2	2.2	0.2	0.3	1.2	6.3	8.5	14.3	0.8	(NA)	(D)
East South Central Division:													
Mississippi	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Woven carpets and rugs (SIC 2271)	Tufted carpets and rugs (SIC 2272)	Carpets and rugs, n.e.c. (SIC 2279)
Primary product specialization ratio[1]	percent	(D)	96	(D)
Coverage ratio[2]	do	81	99	74
All establishments	number	71	449	72
With 1 to 19 employees	do	55	198	54
With 20 to 99 employees	do	10	131	13
With 100 employees or more	do	6	120	5
All employees, average for year	1,000	2.8	50.2	2.8
Payroll for year, all employees	mil. dol.	24.8	506.5	25.3
Production workers:				
Average for year	1,000	2.5	39.4	2.4
March	do	2.5	38.4	2.4
May	do	2.4	39.0	2.4
August	do	2.5	39.7	2.3
November	do	2.5	40.6	2.4
Hours	millions	4.7	82.2	4.5
January to March	do	1.1	19.7	1.2
April to June	do	1.2	20.7	1.2
July to September	do	1.1	20.8	1.1
October to December	do	1.2	20.9	1.1
Wages	mil. dol.	20.0	341.1	18.6
Cost of materials, etc.	do	93.8	3 113.1	73.1
Materials, parts, containers, etc., consumed	do	89.6	2 847.6	65.9
Resales	do	(D)	74.6	(D)
Fuels consumed	do	1.4	52.1	1.2
Purchased electric energy	do	1.0	28.4	1.4
Contract work	do	(D)	110.5	(D)
Value of shipments, including resales	do	138.7	4 520.7	115.2
Value of resales	do	(D)	82.2	(D)
Value added by manufacture	do	47.1	1 438.2	44.8
Manufacturers' inventories:				
Beginning of year	do	23.9	644.1	26.2
Finished products	do	7.0	322.3	10.3
Work in process	do	10.8	132.6	7.4
Materials, supplies, fuel, etc.	do	6.1	189.3	8.4
End of year	do	26.9	696.8	29.9
Finished products	do	8.8	331.9	12.2
Work in process	do	11.2	153.6	8.3
Materials, supplies, fuel, etc.	do	6.8	211.3	9.4
Capital expenditures for plant and equipment	do	1.7	91.3	3.0
New capital expenditures	do	1.1	78.7	2.6
New buildings and other structures	do	0.4	11.1	0.6
New machinery and equipment	do	0.8	67.6	2.0
Used capital expenditures	do	0.5	12.6	0.4

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Woven carpets and rugs (SIC 2271)		Tufted carpets and rugs (SIC 2272)		Carpets and rugs, n.e.c. (SIC 2279)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	0.1	1	2.2	5	(0.4)	71
Response coverage ratio[2] (percent)	71.0	(X)	62.8	(X)	67.5	(X)
Machinery	(0.4)	34	12.2	12	1.5	6
Response coverage ratio[2] (percent)	70.5	(X)	62.9	(X)	68.5	(X)
Cost of purchased communication services	(0.1)	15	8.0	4	(.2)	38
Response coverage ratio[2] (percent)	81.9	(X)	61.6	(X)	78.3	(X)
Rental payments	.8	9	22.4	7	1.3	13
Buildings and other structures	(.3)	17	11.8	7	.8	13
Machinery and equipment	(.4)	16	10.5	7	.5	12
Supplemental labor costs	3.5	4	75.5	1	4.4	12
Legal costs	1.9	5	41.4	1	2.2	1
Voluntary costs	1.6	3	34.2	2	(2.2)	24
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning of year	(14.3)	19	304.6	2	10.8	6
New capital expenditures	(.2)	(A)	11.3	9	(.8)	30
Used capital expenditures	-	(X)	6.5	1	-	(X)
Retirements	(.4)	19	6.8	3	(.2)	28
End of year	(14.0)	16	315.6	2	11.3	5
Machinery and equipment:						
Beginning of year	(27.1)	19	613.7	1	34.4	6
New capital expenditures	(1.9)	19	65.7	4	(2.7)	17
Automobiles, trucks, etc., for highway use[3]	-	(X)	(.7)	(A)	(Z)	(X)
Computers and peripheral data processing equipment[3]	-	(X)	(.9)	(A)	-	(X)
All other[3]	(1.5)	(A)	(51.5)	39	(2.6)	(A)
New machinery and equipment, n.s.k.[4]	(.3)	(A)	(12.6)	(A)	(Z)	(X)
Used capital expenditures	.2	1	(9.3)	38	-	(X)
Retirements	(.3)	88	24.8	2	.9	13
End of year	28.9	12	663.9	1	36.3	6
Total gross value of depreciable assets:						
Beginning of year	(41.4)	19	918.3	1	45.1	6
New capital expenditures	(2.0)	(A)	77.0	4	(3.4)	20
Used capital expenditures	.2	1	(15.8)	23	-	(X)
Retirements	(.8)	47	31.6	2	1.1	11
End of year	42.8	13	979.5	1	47.6	6
Depreciation charges during 1977	(3.1)	42	64.5	1	2.4	4
Buildings and other structures	(.5)	49	12.1	1	.3	6
Machinery and equipment	(2.6)	42	52.4	2	2.1	4

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2271, WOVEN CARPETS AND RUGS												
Total	E1	71	2.8	24.8	2.5	4.7	20.0	47.1	93.8	138.7	1.1	26.9
Establishments with an average of—												
1 to 4 employees	E9	35	0.1	0.4	0.1	0.1	0.3	0.9	1.7	2.5	0.1	0.5
5 to 9 employees	E9	10	0.1	0.6	0.1	0.1	0.4	1.0	2.0	3.0	0.1	0.6
10 to 19 employees	E5	10	(0.2)	(1.9)	(0.2)	(0.4)	(1.2)	(3.7)	(8.7)	(12.2)	(0.5)	(1.8)
20 to 49 employees	-	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
50 to 99 employees	E3	6	(0.7)	(5.8)	(0.6)	(1.2)	(4.9)	(9.8)	(15.6)	(24.9)	(D)	(4.3)
100 to 249 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	-	3	(1.7)	(16.2)	(1.5)	(2.9)	(13.1)	(31.7)	(65.9)	(96.1)	(0.5)	(19.5)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	46	0.2	1.8	0.2	0.3	1.3	3.3	6.3	9.6	0.2	1.9
INDUSTRY 2272, TUFTED CARPETS AND RUGS												
Total	-	449	50.2	506.5	39.4	82.2	341.1	1 438.2	3 113.1	4 520.7	75.7	695.8
Establishments with an average of—												
1 to 4 employees	E9	104	0.1	1.4	0.1	0.2	0.9	(S)	8.2	11.8	0.2	1.9
5 to 9 employees	E7	41	0.3	2.8	0.2	0.5	1.9	6.9	16.9	23.8	0.5	3.5
10 to 19 employees	E6	53	0.7	7.0	0.6	1.1	4.4	17.6	39.6	57.5	1.0	8.8
20 to 49 employees	E2	71	2.2	22.3	1.7	3.4	13.9	55.3	136.1	191.1	2.9	28.5
50 to 99 employees	E1	60	4.2	40.3	3.3	6.6	25.2	120.3	240.7	358.6	9.5	56.8
100 to 249 employees	-	62	9.6	93.6	7.4	15.4	60.4	277.1	595.7	866.4	14.4	122.0
250 to 499 employees	-	33	10.9	108.4	8.7	18.3	76.2	316.6	720.3	1 036.6	12.5	146.6
500 to 999 employees	-	18	12.3	120.8	9.8	19.9	84.7	332.2	713.6	1 042.6	16.4	183.5
1,000 to 2,499 employees	-	7	9.9	110.1	7.5	16.6	73.3	312.3	642.0	932.4	21.3	145.1
Covered by administrative records[2]	E0	159	1.1	10.5	0.9	1.8	7.1	25.5	60.1	85.6	1.4	13.8
INDUSTRY 2279, CARPETS AND RUGS, N.E.C.												
Total	E1	72	2.8	25.3	2.4	4.5	16.6	44.6	73.1	115.2	2.6	29.9
Establishments with an average of—												
1 to 4 employees	E8	36	0.1	0.5	(Z)	0.1	0.3	1.1	1.6	2.7	(Z)	(0.8)
5 to 9 employees	E9	9	0.1	0.5	(Z)	0.1	0.3	1.0	1.4	2.5	(Z)	(D)
10 to 19 employees	E1	9	0.1	0.8	0.1	0.1	0.5	3.1	2.1	4.9	0.2	1.0
20 to 49 employees	E4	10	(0.8)	(6.7)	(0.6)	(1.2)	(4.3)	(13.1)	(17.9)	(30.5)	(2.4)	(7.4)
50 to 99 employees	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	-	2	(1.8)	(16.9)	(1.5)	(3.0)	(13.2)	(26.5)	(50.1)	(74.5)	(D)	(20.6)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	34	0.1	0.7	0.1	0.1	0.5	1.6	2.2	3.8	0.1	0.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2271	**Woven carpets and rugs:**										
	Entire industry	71	2.8	24.8	2.5	4.7	20.0	47.1	93.8	138.7	1.1
	Establishments with 75 percent specialization or more	68	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2272	**Tufted carpets and rugs:**										
	Entire industry	449	50.2	506.5	39.4	82.2	341.1	1 438.2	3 113.1	4 520.7	78.7
	Establishments with 75 percent specialization or more	405	45.2	455.5	35.4	73.7	307.2	1 300.8	2 877.3	4 146.0	74.0
2279	**Carpets and rugs, n.e.c.:**										
	Entire industry	72	2.8	25.3	2.4	4.5	18.6	44.8	73.1	115.2	2.6
	Establishments with 75 percent specialization or more	67	1.0	8.2	0.8	1.5	5.4	17.9	22.9	40.2	1.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
2271	Woven carpets and rugs.....1977..	138.7	135.8	(D)	(D)	(D)	167.9	135.8	32.1	81
	1972..	212.3	172.7	21.9	17.7	89	202.5	172.7	29.8	85
	1967..	240.2	187.4	34.4	18.4	84	223.4	187.4	36.0	84
2272	Tufted carpets and rugs.....1977..	4,520.2	4,121.2	156.0	243.1	96	4,172.2	4,121.2	51.0	99
	1972..	2,775.2	2,581.3	74.0	119.9	97	2,634.1	2,581.3	52.8	98
	1967..	1,426.9	1,318.9	52.1	55.9	96	1,332.4	1,318.9	13.5	99
2279	Carpets and rugs, n.e.c.....1977..	115.2	69.1	(D)	(D)	(D)	93.0	69.1	23.9	74
	1972..	157.9	75.0	45.6	37.3	62	105.8	75.0	30.8	71
	1967..	90.3	66.3	14.0	10.0	83	95.5	66.3	29.2	69

(D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Woven carpets and rugs (SIC 2271)	Tufted carpets and rugs (SIC 2272)	Carpets and rugs, n.e.c. (SIC 2279)	Other industries
	Total	(X)	138.7	4,520.2	115.2	(X)
	Primary products	(X)	135.8	4,121.2	69.1	(X)
	Secondary products	(X)	(D)	156.0	(D)	(X)
	Miscellaneous receipts	(X)	(D)	243.1	(D)	(X)
22710	Woven carpets and rugs	167.9	135.8	(D)	(D)	(D)
22720	Tufted carpets and rugs	4,172.2	-	4,121.2	(D)	(D)
22790	Carpets, rugs, and mats, n.e.c	93.0	(D)	20.5	69.1	(D)
	Other shipments by 4-digit product group:					
2257-	Circular knit fabrics	(X)	-	-	(D)	(X)
2269-	Finished textiles, n.e.c	(X)	-	(D)	-	(X)
2281-	Yarn, except wool	(X)	-	(D)	-	(X)
2282-	Textured, thrown, and rewound yarn	(X)	-	(D)	-	(X)
2291-	Felt goods, except woven felts and hats	(X)	-	-	(D)	(X)
2295-	Coated fabrics, not rubberized	(X)	-	-	(D)	(X)
2391-	Curtains and draperies	(X)	-	(D)	-	(X)
2392-	Housefurnishings, n.e.c	(X)	-	(D)	-	(X)
2399-	Fabricated textile products, n.e.c	(X)	-	14.3	(D)	(X)
	Miscellaneous receipts:					
93000 00	Contract work	(X)	(D)	157.4	(D)	(X)
99980 98	Other miscellaneous receipts	(X)	(D)	3.5	(D)	(X)
99989 00	Resales	(X)	(D)	82.2	(D)	(X)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2272-	2262 Finishing mills, manmade fiber fabrics	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified.
(X) Not applicable.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
2271- --	WOVEN CARPETS AND RUGS						
22710 --	Woven carpets and rugs:						
22710 00	As reported in the census of manufactures	Mil. sq. yd.	23	**19.1	[3]167.9	28.7	[3]202.5
	As reported in Current Industrial Reports MQ-22Q, Carpets and Rugs		(NA)	(NA)	157.2	26.7	195.4
22710 01	Axminster		(NA)	(D)	(D)	3.3	22.3
22710 03	Wilton		(NA)	.7	8.7	2.8	21.9
22710 05	Velvet		(NA)	11.9	106.6	18.3	134.5
22710 07	Other woven carpet and rugs, including upholstery loom type carpeting	Mil. sq. yd.	(NA)	(D)	(D)	2.3	16.7
2272- --	TUFTED CARPETS AND RUGS						
22720 --	Tufted carpets and rugs:						
22720 00	As reported in the census of manufactures[4]	Mil. sq. yd.	204	*1,039.5	[3]4,172.2	875.7	2,634.1
	As reported in Current Industrial Reports MQ-22Q, Carpets and Rugs		(NA)	1,025.8	4,050.3	856.9	2,642.1
22720 01	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)		(NA)	79.7	242.9	812.5	2,536.4
22720 03	Roll goods and rugs larger than 6' x 9', including artificial grass		(NA)	875.9	3,618.1		
22720 05	Automobile and aircraft carpeting	Mil. sq. yd.	(NA)	70.2	189.3	44.4	105.7
2279- --	CARPETS AND RUGS, N.E.C.						
22790 --	Carpets, rugs, and mats, n.e.c.:						
22790 00	As reported in the census of manufactures	Mil. sq. yd.	47	**34.7	[3]93.0	[5]68.5	[3]105.8
	As reported in Current Industrial Reports MQ-22Q, Carpets and Rugs		(NA)	32.3	92.6	59.3	98.7
22790 10	Knitted		(NA)	9.3	43.0	7.4	25.9
22790 74	Needle punch		(NA)	16.3	29.5	48.6	64.7
22790 70	Braided, hooked, and other carpets and rugs, n.e.c.	Mil. sq. yd.	(NA)	6.2	20.1	3.4	8.1

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]Includes value of shipments for establishments estimated from administrative records (see Note). CIR MQ-22Q does not include those establishments.

[4]Includes establishments that purchase tufted carpets for dyeing and finishing. CIR MQ-22Q does not include those establishments.

[5]10 to 30 percent of quantity was estimated.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972**

(Not applicable)

Table 6c. **Product Classes — Value Shipped by All Producers: 1963, 1967, and 1972 to 1977**

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
22710	Woven carpets and rugs	167.9	182.7	163.8	202.1	203.0	202.5	223.4	250.8
22720	Tufted carpets and rugs	4,172.2	3,269.1	2,801.2	2,951.0	3,080.7	2,634.1	1,332.4	779.1
22790	Carpets, rugs, and mats, n.e.c.	93.0	94.0	93.1	103.9	111.3	105.8	95.5	51.8

n.e.c. Not elsewhere classified.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

Table 7. **Materials Consumed by Kind: 1977 and 1972**

(Source of data is Current Industrial Reports (CIR) MQ-22Q, Carpets and Rugs, released in November 1978 and 1973. Data cover quantity of materials consumed by all manufacturers of carpets and rugs regardless of industry classification of establishments. Consequently, figures are not comparable with cost of materials figures shown in other tables in report, which represent cost of all materials consumed by establishments classified in specified industries. For further explanation, see appendix A, Cost of materials)

Material-code	Type of yarn or fabric	Unit of measure	1977					
					Tufted carpets and rugs			Other carpets and rugs (except woven and tufted)
			Total	Woven carpets and rugs	Bathmats and throw rugs, 6'x9' and smaller	Roll goods and rugs, larger than 6'x9'	Automobile and aircraft carpeting	
	CARPETS AND RUGS							
	Face yarns	1,000 lbs.	1,619,492	54,511	75,935	1,379,304	66,592	43,150
0228321	Wool and chiefly wool	1,000 lbs.	14,440	8,337	-	5,523	-	580
	Nylon:							
0282411	Filament	1,000 lbs.	633,526	28,107	9,515	575,884	(D)	6,094
0282141	Spun	1,000 lbs.	612,059		28,779	540,882	26,434	
0228147	Acrylic and modacrylic	1,000 lbs.	81,353	16,930	(D)	53,628	(D)	7,758
0282428	Polyester	1,000 lbs.	180,857	(D)	24,162	147,723	7,240	643
0282422	Polypropylene	1,000 lbs.	76,849	(D)	1,125	49,040	(D)	24,497
0220906	All other yarns	1,000 lbs.	20,408	(D)	(D)	6,624	(D)	3,578
	Primary backing	1,000 sq. yd.	(X)	[1]27,277	66,595	838,572	68,730	25,902
0220103	Cotton	1,000 sq. yd.	(X)	[1]4,380	(D)	1,022	-	(D)
0229922	Jute	1,000 sq. yd.	(X)	[1]9,679	(D)	150,954	54,539	(D)
0220105	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.)	1,000 sq. yd.	(X)	[1]13,218	60,513	686,596	14,191	23,170
0220014	Other backing	1,000 sq. yd.						
	Secondary backing	1,000 sq. yd.	792,394	(D)	33,539	737,892	12,066	(D)
0229924	Jute	1,000 sq. yd.	514,217	(D)	(D)	504,177	(D)	-
0228100	Manmade, woven and nonwoven	1,000 sq. yd.	([2])	([2])	([2])	([2])	([2])	([2])
	Cushion backing	1,000 sq. yd.	216,735	(D)	27,001	179,261	(D)	(D)
0306937	Foam or high-density rubber	1,000 sq. yd.	199,147	2,139	22,908	169,333	(D)	(D)
0307927	Other (vinyl, polyurethane, etc.)	1,000 sq. yd.	17,588	(D)	4,093	9,928	(D)	(D)
0220023	Other (scrim, nonwoven, solid vinyl, etc.)	1,000 sq. yd.	[2]61,442	(D)	(D)	[2]54,454	-	(D)

Material-code	Type of yarn or fabric	Unit of measure	1972					
					Tufted carpets and rugs			Other carpets and rugs (except woven and tufted)
			Total	Woven carpets and rugs	Bathmats and throw rugs, 4'x6' and smaller	Roll goods and rugs, larger than 4'x6'	Automobile and aircraft carpeting	
	CARPETS AND RUGS							
	Face yarns	1,000 lb.	1,368,052	77,939	84,941	1,108,546	54,325	42,301
0228102	Cotton	1,000 lb.	12,018	-	8,828	2,596	-	594
0228131	Rayon and/or acetate	1,000 lb.	75,374	(D)	27,301	16,097	30,324	(D)
0228201	Wool and chiefly wool	1,000 lb.	68,861	39,290	(D)	(D)	-	(D)
	Nylon:							
0282411	Filament	1,000 lb.	479,673	14,755	5,782	461,911	24,001	5,109
0228141	Spun	1,000 lb.	337,550		23,105	282,560		
0228147	Acrylic and modacrylic	1,000 lb.	145,068	23,052	2,959	111,164	-	7,893
0282428	Polyester	1,000 lb.	185,335	(D)	13,303	170,136	-	(D)
0282422	Polypropylene	1,000 lb.	59,151	(D)	(D)	31,942	-	24,018
0220906	All other yarns	1,000 lb.	5,022	(D)	(D)	(D)	-	1,028
	Primary backing	1,000 sq. yd.	(X)	[1]39,201	75,492	727,547	50,560	39,030
0220103	Cotton	1,000 sq. yd.	(X)	[1]15,659	44,080	(D)	-	-
0229922	Jute	1,000 sq. yd.	(X)	[1]14,964	12,248	334,816	(D)	(D)
0229903	Paper	1,000 sq. yd.	(X)	[1]4,649	-	(D)	-	(D)
0220105	Manmade (polypropylene, etc.)	1,000 sq. yd.	(X)	[1]3,929	19,164	382,176	(X)	37,000
0220014	Other backing	1,000 sq. yd.	-	-	-	-	-	-
	Secondary backing	1,000 sq. yd.	759,032	4,453	33,998	690,391	10,830	19,360
0229924	Jute	1,000 sq. yd.	441,451	(D)	(D)	429,571	(D)	-
	Cushion backing	1,000 sq. yd.	267,309	(D)	26,627	224,136	(D)	(D)
0306937	Foam or high-density rubber	1,000 sq. yd.	234,326	(D)	(D)	198,496	-	(D)
0307927	Other (vinyl, polyurethane, etc.)	1,000 sq. yd.	32,983	(D)	(D)	25,640	(D)	-
0220023	Other (scrim, nonwoven, solid vinyl, etc.)	1,000 sq. yd.	50,272	(D)	(D)	36,684	-	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (X) Not applicable.
[1]Thousands of pounds.
[2]For 1977, material code 0228100 was included with material code 0220023.

Yarn and Thread Mills

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DESCRIPTION OF INDUSTRIES

YARN AND THREAD MILLS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2281	Yarn Mills, Except Wool
2282	Throwing and Winding Mills
2283	Wool Yarn Mills
2284	Thread Mills

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2281, YARN MILLS, EXCEPT WOOL

This industry comprises establishments primarily engaged in spinning yarn wholly or chiefly by weight of cotton, manmade fibers or silk. Establishments primarily engaged in dyeing or finishing purchased yarns or finishing yarns on a commission basis are classified in industry 2269.

The total value of shipments for establishments classified in the Yarn Mills, Except Wool industry amounted to $3,865 million in 1977, an increase of 71 percent from 1972. The value of shipments of products classified as primary to the industry was $4,826 million, an increase of 74 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $1,480 million in 1977, was 70 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 93.0 thousand employees, an increase of 3 percent from 1972. The leading States in employment were North Carolina, Georgia, South Carolina, and Alabama, accounting for approximately 90 percent of the industry's 1977 employment. Data for Alabama have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Certain products primary to industry 2281 are also primary to Industry 2269, Finishing Plants, N.E.C. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were mot received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2282, THROWING AND WINDING MILLS

This industry comprises establishments primarily engaged in texturizing, throwing, twisting, winding or spooling purchased yarns or manmade fiber filaments, wholly or chiefly by weight of cotton, manmade fibers or silk, or in performing such activities on a commission basis. Establishments primarily engaged in dyeing or finishing purchased yarns or finishing yarns on a commission basis are classified in industry 2269. Establishments primarily engaged in producing and texturizing manmade fiber filaments and yarns in the same plant are classified in industry 2823 or 2824.

The 1977 definition of this industry has been revised from that given in the 1977 SIC manual, but the SIC number and title are unchanged. The 1977 revision transferred the manufacture of textured filament yarn by fiber producing plants to Industry 2824, Organic Fiber, Noncellulosic. The manufacture of textured filament yarn from purchased yarn remains classified in industry 2282.

The effect of the revisions on the data are summarized in table 1c, Composition of New (1977) Industry Based on Old (1972) Standard Industrial Classification.

The total value of shipments for establishments classified in the Throwing and Winding Mills industry amounted to $1,510 million in 1977, an increase of 5 percent from 1972. The value of shipments of products classified as primary to the industry

was $2,449 million, an increase of 40 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $497 million in 1977, was 3 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 30.5 thousand employees, a decrease of approximately 20 percent from 1972. The leading States in employment were North Carolina, Georgia, Tennessee, and Pennsylvania, accounting for approximately 75 percent of the industry's 1977 employment.

Certain products primary to industry 2282 are also primary to Industry 2824, Organic Fibers, Noncellulosic. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2283, WOOL YARN MILLS

This industry comprises establishments primarily engaged in spinning, twisting, winding or spooling yarn (including carpet and rug yarn), wholly or chiefly by weight of wool, mohair, or similar animal fibers. Establishments primarily engaged in dyeing or finishing purchased wool yarn or finishing wool yarn on a commission basis are classified in industry 2231.

The total value of shipments for establishments classified in the Wool Yarn Mills industry amounted to $195 million in 1977, a decrease of 14 percent from 1972. The value of shipments of products classified as primary to the industry was $234 million, an increase of 5 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments. Value added by manufacture, at $82 million in 1977, was 13 percent below value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 4.1 thousand employees, a decrease of 52 percent from 1972. The leading States in employment were Georgia, North Carolina, Maine, and Wisconsin. Data for Georgia, North Carolina, and Wisconsin have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 7 percent of total value of shipments.

INDUSTRY 2284, THREAD MILLS

This industry comprises establishments primarily engaged in the manufacture of thread from natural or manmade fiber, except flax (industry 2299) and wool (industry 2283). Important products of this industry include sewing, crochet, darning, embroidery, tatting, hand knitting, and other handicraft threads.

The total value of shipments for establishments classified in the Thread Mills industry amounted to $544 million in 1977, an increase of 57 percent from 1972. The value of shipments of products classified as primary to the industry was $551 million, an increase of 61 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $202 million in 1977, was 42 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 12.8 thousand employees, an increase of 9 percent from 1972. The leading States in employment were North Carolina, Georgia, Connecticut, and South Carolina. Data for North Carolina, Georgia, and South Carolina have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2281, YARN MILLS, EXCEPT WOOL																
1977 Census--	273	456	370	93.0	782.7	85.6	175.2	675.5	1 480.3	2 382.5	3 864.9	114.4	(NA)	363.6	92	72
1976 ASM----	(NA)	(NA)	(NA)	90.8	689.8	84.2	168.7	596.4	1 249.3	2 164.4	3 398.5	80.0	1 554.9	348.6	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	81.5	543.1	74.9	141.2	459.3	863.6	1 644.5	2 541.4	100.5	1 533.7	322.6	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	94.1	605.2	86.8	168.3	515.6	1 100.0	1 869.9	2 918.2	125.7	1 491.8	352.0	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	95.5	588.2	89.0	185.2	511.4	1 055.7	1 564.0	2 615.9	101.4	1 350.9	301.9	(NA)	(NA)
1972 Census--	264	426	358	89.6	516.3	83.5	177.2	451.4	867.2	1 385.6	2 248.3	96.3	1 264.3	243.1	92	86
1971 ASM----	(NA)	(NA)	(NA)	82.9	444.8	77.2	160.4	390.1	728.2	1 175.4	1 910.2	64.7	1 176.4	228.8	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	80.2	388.1	75.0	148.7	340.9	631.8	1 026.9	1 664.4	88.1	1 133.6	200.0	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	83.1	391.3	78.2	156.4	346.6	672.2	1 083.0	1 741.8	69.2	1 004.4	207.7	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	77.4	356.5	72.9	151.3	317.3	630.8	1 003.8	1 619.4	57.6	876.9	197.8	(NA)	(NA)
1967 Census--	256	377	328	74.5	310.5	70.2	142.1	275.2	556.2	868.6	1 422.5	89.4	829.8	175.4	95	84
1966 ASM----	(NA)	(NA)	(NA)	72.6	307.0	68.6	146.3	272.5	592.0	895.0	1 478.5	99.3	(NA)	164.8	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	68.6	275.3	64.2	140.0	245.9	531.7	852.9	1 378.7	64.9	(NA)	157.1	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	64.2	232.3	59.7	125.8	206.6	405.7	753.7	1 158.6	48.8	539.6	131.4	(NA)	(NA)
1963 Census--	234	317	284	61.6	208.1	58.2	117.9	184.8	363.2	708.0	1 067.0	34.7	498.1	137.1	96	83
INDUSTRY 2282, THROWING AND WINDING MILLS																
1977 Census--	172	196	148	30.5	262.3	27.1	54.5	210.4	496.9	1 030.9	1 510.1	51.1	(NA)	132.3	92	55
1976 ASM----	(NA)	(NA)	(NA)	39.2	323.1	34.2	66.3	252.1	587.1	1 173.8	1 773.2	78.3	1 087.4	147.2	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	36.5	271.4	31.6	60.3	209.9	489.5	1 093.9	1 593.1	54.5	939.5	158.8	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	41.6	279.7	36.1	72.0	216.1	619.8	1 183.7	1 772.3	78.6	797.8	158.7	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	43.4	279.7	37.5	77.0	218.1	703.9	1 116.3	1 805.9	94.5	781.2	149.8	(NA)	(NA)
1972 Census--	177	212	169	38.0	230.9	32.9	67.9	180.1	477.8	941.3	1 427.6	113.7	646.6	110.7	94	74
1971 ASM----	(NA)	(NA)	(NA)	28.9	158.6	25.5	51.8	126.2	363.1	717.6	1 065.9	67.1	397.5	102.3	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	24.8	129.2	22.0	44.8	103.6	300.0	611.6	914.3	42.9	331.7	76.9	(NA)	(NA)
1969 ASM[6]---	(NA)	(NA)	(NA)	22.9	112.4	20.8	42.2	92.1	264.5	483.3	750.7	55.7	246.3	65.6	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	21.9	100.9	20.1	40.7	83.8	253.7	506.9	746.4	51.7	183.0	67.6	(NA)	(NA)
1967 Census--	159	181	130	18.5	78.6	16.9	34.6	64.9	173.2	387.8	568.0	18.0	139.7	48.0	97	(S)
1966 ASM----	(NA)	(NA)	(NA)	16.3	63.6	14.5	29.2	49.4	139.9	298.9	438.4	16.3	(NA)	48.5	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	15.5	59.2	14.4	28.1	45.5	133.3	284.5	405.1	9.0	(NA)	50.2	(NA)	(NA)
1964 ASM[5]---	(NA)	(NA)	(NA)	16.0	59.6	14.3	29.6	48.0	103.0	275.6	368.0	14.9	81.5	42.0	(NA)	(NA)
1963 Census--	165	180	110	13.6	47.1	12.1	24.1	37.3	93.6	226.6	319.3	6.2	70.0	35.1	95	87
INDUSTRY 2283, WOOL YARN MILLS																
1977 Census--	71	76	43	4.1	33.1	3.7	7.3	27.3	81.8	112.4	194.9	2.7	(NA)	17.4	90	71
1976 ASM[5]---	(NA)	(NA)	(NA)	4.7	40.7	4.3	8.5	31.4	100.2	118.8	216.0	3.1	47.3	34.1	(NA)	(NA)
1975 ASM[5]---	(NA)	(NA)	(NA)	3.6	30.1	3.2	6.6	22.4	60.1	102.0	162.7	1.6	44.9	28.9	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	4.3	33.6	3.9	8.1	26.8	76.3	122.6	179.1	4.1	38.5	29.3	(NA)	(NA)
1973 ASM[6]---	(NA)	(NA)	(NA)	6.3	38.0	5.8	11.6	31.2	67.5	132.7	197.7	5.2	58.6	36.8	(NA)	(NA)
1972 Census--	82	98	54	8.3	49.7	7.5	15.3	41.6	92.7	134.9	221.4	4.2	82.3	37.0	72	69
1971 ASM----	(NA)	(NA)	(NA)	11.2	66.4	9.7	20.1	50.9	130.1	182.6	316.9	9.7	111.4	40.4	(NA)	(NA)
1970 ASM[6]---	(NA)	(NA)	(NA)	13.0	72.0	11.2	23.4	56.0	136.6	224.5	356.6	11.2	128.8	48.8	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	12.7	67.0	11.0	22.6	51.8	117.1	219.4	338.4	8.7	102.1	54.9	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	14.6	71.3	12.9	26.1	56.7	145.8	253.2	393.1	5.2	123.6	61.7	(NA)	(NA)
1967 Census--	127	135	107	14.7	66.0	12.9	25.8	52.1	117.9	239.3	361.5	8.9	120.7	56.9	79	80
1966 ASM----	(NA)	(NA)	(NA)	15.1	64.6	13.6	27.5	53.0	121.6	289.5	407.3	13.5	(NA)	59.4	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	15.6	63.3	14.1	29.4	53.2	123.8	286.1	406.9	10.3	(NA)	58.7	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	16.3	65.6	14.8	30.3	53.8	116.7	342.3	462.1	7.5	129.6	63.6	(NA)	(NA)
1963 Census--	136	144	121	17.4	66.5	15.8	32.0	55.0	119.7	306.4	422.2	7.3	122.8	69.5	85	82
INDUSTRY 2284, THREAD MILLS																
1977 Census--	59	70	47	12.8	106.3	10.9	21.1	81.1	201.9	351.9	544.4	11.8	(NA)	102.7	96	91
1976 ASM----	(NA)	(NA)	(NA)	10.6	82.4	9.1	17.2	59.6	181.1	283.5	456.3	5.2	154.2	89.2	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	9.7	70.3	8.2	15.1	50.7	153.4	238.4	397.7	3.9	153.1	81.4	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	10.7	72.8	9.2	16.7	53.2	181.2	244.4	414.8	8.0	150.5	87.8	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	12.0	76.6	10.3	19.9	57.6	174.1	215.7	379.4	7.9	145.3	70.8	(NA)	(NA)
1972 Census--	61	73	45	11.7	69.2	10.1	19.9	52.8	141.8	205.2	345.4	7.5	144.3	56.8	92	90
1971 ASM----	(NA)	(NA)	(NA)	10.4	62.2	8.7	17.9	47.4	127.3	186.4	311.9	4.7	130.3	52.3	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	10.8	58.1	9.2	18.8	44.0	123.9	180.0	300.7	9.1	122.8	50.0	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	11.4	58.7	9.8	19.3	45.1	110.2	173.4	286.2	5.3	114.4	50.8	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	11.9	57.6	10.3	20.7	45.4	110.9	180.5	286.2	4.9	121.4	53.1	(NA)	(NA)
1967 Census--	63	75	55	11.4	49.8	10.0	19.2	38.7	98.9	159.3	256.0	11.6	122.0	45.7	90	90
1966 ASM----	(NA)	(NA)	(NA)	11.8	52.2	10.2	21.0	40.6	105.6	160.5	264.3	10.0	(NA)	45.9	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	10.5	45.5	8.9	18.9	35.4	83.9	141.4	227.5	7.4	(NA)	39.4	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	10.2	40.7	8.9	18.4	32.0	85.0	125.9	207.9	3.7	107.5	39.3	(NA)	(NA)
1963 Census--	56	71	36	10.1	37.4	8.8	17.5	28.9	75.8	119.0	194.1	3.3	102.2	36.2	93	90

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.
[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2281, YARN MILLS, EXCEPT WOOL											
1977 Census--	8 412	(NA)	91	2 048	3.85	61	81	(NA)	15 910	52	8.44
1976 ASM----	7 596	17 124	92	2 003	3.53	63	83	45	13 758	55	7.40
1975 ASM----	6 663	18 818	91	1 885	3.25	64	86	60	10 596	62	6.11
1974 ASM----	6 431	15 853	92	1 938	3.06	64	84	51	11 689	55	6.53
1973 ASM----	6 159	14 145	93	2 080	2.76	59	82	51	11 054	55	5.70
1972 Census--	5 762	14 110	93	2 122	2.54	61	84	56	9 678	59	4.89
1971 ASM----	5 365	14 190	93	2 077	2.43	61	84	61	8 784	61	4.53
1970 ASM----	4 839	14 134	93	1 982	2.29	61	85	68	7 877	61	4.24
1969 ASM----	4 708	12 086	94	2 000	2.21	62	84	57	8 089	58	4.29
1968 ASM----	4 605	11 329	94	2 075	2.09	61	84	54	8 149	56	4.16
1967 Census--	4 168	11 138	94	2 024	1.93	61	82	58	7 466	55	3.91
1966 ASM----	4 228	(NA)	94	2 132	1.86	60	81	(NA)	8 154	51	4.04
1965 ASM----	4 013	(NA)	93	2 180	1.75	61	81	(NA)	7 750	51	3.79
1964 ASM----	3 618	8 404	92	2 107	1.64	65	85	46	6 319	57	3.22
1963 Census--	3 378	8 086	94	2 025	1.56	66	85	46	5 896	57	3.08
INDUSTRY 2282, THROWING AND WINDING MILLS											
1977 Census--	8 592	(NA)	88	2 014	3.85	68	85	(NA)	16 279	52	9.11
1976 ASM----	8 242	27 739	87	1 938	3.80	66	84	61	14 977	55	8.85
1975 ASM----	7 435	25 739	86	1 908	3.48	68	85	58	13 410	55	8.11
1974 ASM----	6 723	19 177	86	1 994	3.00	66	82	45	14 899	45	8.60
1973 ASM----	6 444	18 000	86	2 053	2.83	61	77	43	16 218	39	9.14
1972 Census--	6 076	17 015	86	2 063	2.65	65	82	45	12 573	48	7.03
1971 ASM----	5 487	13 754	88	2 031	2.43	67	82	37	12 564	43	7.00
1970 ASM----	5 209	13 375	88	2 036	2.31	66	81	36	12 096	43	6.69
1969 ASM----	4 908	10 755	90	2 028	2.18	64	79	32	11 550	42	6.26
1968 ASM----	4 607	8 356	91	2 024	2.05	67	81	24	11 584	39	6.23
1967 Census--	4 248	7 551	91	2 047	1.87	68	82	24	9 362	45	5.00
1966 ASM----	3 901	(NA)	88	2 013	1.69	68	82	(NA)	8 582	45	4.79
1965 ASM----	3 819	(NA)	92	1 951	1.61	70	84	(NA)	8 600	44	4.74
1964 ASM----	3 725	5 093	89	2 069	1.62	74	91	22	6 437	57	3.47
1963 Census--	3 463	5 147	88	1 991	1.54	70	85	22	6 882	50	3.88
INDUSTRY 2283, WOOL YARN MILLS											
1977 Census--	8 128	(NA)	91	1 964	3.71	57	74	(NA)	20 112	40	11.13
1976 ASM----	8 659	10 063	91	1 976	3.69	55	73	21	21 319	40	11.78
1975 ASM----	8 361	12 472	88	2 062	3.39	62	81	27	16 694	50	9.10
1974 ASM----	7 813	8 953	90	2 076	3.30	68	87	21	17 744	44	9.41
1973 ASM----	6 031	9 301	92	2 000	2.68	67	86	29	10 714	56	5.81
1972 Census--	5 988	9 916	84	2 040	2.04	68	74	3	11 169	54	6.06
1971 ASM----	5 928	9 946	86	2 072	2.53	57	78	35	11 616	51	6.47
1970 ASM----	5 538	9 907	86	2 089	2.39	62	83	36	10 507	52	5.83
1969 ASM----	5 275	8 039	86	2 054	2.29	64	84	30	9 220	57	5.18
1968 ASM----	4 883	8 465	88	2 023	2.17	64	82	31	9 986	48	5.58
1967 Census--	4 489	8 210	87	2 000	2.01	66	84	33	8 020	55	4.56
1966 ASM----	4 278	(NA)	90	2 022	1.92	71	86	(NA)	8 052	53	4.42
1965 ASM----	4 057	(NA)	90	2 085	1.80	70	85	(NA)	7 935	51	4.21
1964 ASM----	4 024	7 951	90	2 047	1.77	74	88	28	7 159	56	3.85
1963 Census--	3 821	7 057	90	2 025	1.71	72	88	29	6 879	55	3.74
INDUSTRY 2284, THREAD MILLS											
1977 Census--	8 295	(NA)	85	1 929	3.84	64	84	(NA)	15 749	52	9.57
1976 ASM----	7 773	14 547	85	1 890	3.46	62	80	33	17 084	45	10.52
1975 ASM----	7 247	15 783	84	1 841	3.35	59	77	38	15 814	45	10.15
1974 ASM----	6 803	14 065	85	1 815	3.18	58	76	36	16 934	40	10.85
1973 ASM----	6 383	12 108	85	1 932	2.89	56	77	38	14 508	43	8.74
1972 Census--	5 914	12 333	86	1 970	2.65	59	79	41	12 119	48	7.12
1971 ASM----	5 980	12 528	83	2 057	2.64	59	79	41	12 240	48	7.11
1970 ASM----	5 379	11 370	85	2 043	2.34	59	79	40	11 472	46	6.59
1969 ASM----	5 149	10 035	85	1 969	2.33	60	81	39	9 666	53	5.70
1968 ASM----	4 840	10 201	86	2 009	2.19	63	83	42	9 319	51	5.35
1967 Census--	4 368	10 701	87	1 920	2.01	62	81	47	8 675	50	5.15
1966 ASM----	4 423	(NA)	86	2 058	1.93	60	80	(NA)	8 949	49	5.02
1965 ASM----	4 333	(NA)	84	2 123	1.87	62	82	(NA)	7 990	54	4.43
1964 ASM----	3 990	10 539	87	2 067	1.73	60	80	51	8 333	47	4.61
1963 Census--	3 702	10 118	87	1 988	1.65	61	80	52	7 504	49	4.33

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 1c. Composition of New (1977) Industry Based on Old (1972) Standard Industrial Classification

(Under "Composition of new industry," rows of data for "New industries" are for industries as now composed and row of data for "Old industry" is for industry as it would have been if industry definition had not been changed. Under "Totals for industries on old SIC," data are for industries before revision and reflect amounts classified in specified new industry as well as in other new industries. The data in first five columns show that portion of "Old industry" that was moved to "New industry")

Industry	Composition of new industry--1977 data					Total for industries on old SIC--1977 data				
	Establishments		All employees (1,000)	Value added by manufacture (million dollars)	Value of shipments (million dollars)	Establishments		All employees (1,000)	Value added by manufacture (million dollars)	Value of shipments (million dollars)
	Total (number)	With 20 employees or more (number)				Total (number)	With 20 employees or more (number)			
New industry 2282--Throwing and winding mills	196	148	30.5	496.9	1,510.1	(X)	(X)	(X)	(X)	(X)
New industry 2824--Organic fibers, (includes producer-textured noncellulosic yarns)	7	7	6.3	199.8	403.8	(X)	(X)	(X)	(X)	(X)
Old industry 2282--Throwing and winding mills	(X)	(X)	(X)	(X)	(X)	203	155	36.8	696.7	1,913.9

(X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977												1972	
		All establishments		All employees		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2281, YARN MILLS, EXCEPT WOOL														
United States	-	**456**	**370**	**93.0**	**782.7**	**85.6**	**175.2**	**675.5**	**1 480.3**	**2 382.5**	**3 864.9**	**114.4**	**89.6**	**867.2**
New England Division:														
Maine	E1	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
New Hampshire	E1	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Massachusetts	-	10	8	0.8	6.1	0.7	1.4	5.1	11.3	14.3	24.7	(D)	0.6	5.1
Connecticut	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Middle Atlantic Division:														
New York	E1	21	5	1.2	11.1	0.9	1.8	7.7	16.4	23.9	43.5	0.2	0.5	3.7
New Jersey	E4	10	3	0.3	2.5	0.3	0.5	1.8	4.2	12.2	16.1	0.5	(NA)	(NA)
Pennsylvania	E1	13	8	1.4	11.4	1.3	2.6	9.7	21.0	26.1	47.3	2.5	1.1	9.9
South Atlantic Division:														
Virginia	-	6	5	1.0	8.2	0.9	1.9	7.1	15.6	32.9	47.9	0.8	0.8	10.3
North Carolina	-	185	166	46.9	382.3	43.5	88.4	332.1	704.8	1 141.9	1 852.5	55.5	48.7	447.7
South Carolina	-	50	44	10.0	90.7	9.1	19.2	76.5	169.1	285.0	454.2	11.7	FF	(D)
Georgia	-	62	55	16.7	146.3	15.1	31.6	125.6	279.2	459.7	738.1	14.1	13.8	155.4
East South Central Division:														
Kentucky	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Tennessee	-	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Alabama	-	42	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Mississippi	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Arkansas	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Oklahoma	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Pacific Division:														
California	-	14	7	1.2	9.1	1.1	2.1	7.9	20.6	30.9	50.5	2.5	BB	(D)
INDUSTRY 2282, THROWING AND WINDING MILLS														
United States	-	**196**	**148**	**30.5**	**262.3**	**27.1**	**54.5**	**210.4**	**496.9**	**1 030.9**	**1 510.1**	**51.1**	**38.0**	**477.8**
New England Division:														
Massachusetts	-	6	5	0.6	5.4	0.4	0.7	2.6	9.5	10.8	19.8	(D)	0.2	2.1
Rhode Island	-	10	5	0.8	7.9	0.7	1.5	5.6	26.7	31.5	51.7	(D)	BB	(D)
Middle Atlantic Division:														
New York	E4	12	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
New Jersey	E1	16	6	0.5	4.4	0.4	0.8	2.9	7.2	16.3	23.3	(D)	0.7	9.8
Pennsylvania	-	28	25	2.9	21.5	2.7	5.1	18.0	26.1	35.4	62.1	(D)	3.9	29.1
East North Central Division:														
Illinois	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Virginia	-	6	6	2.7	21.4	2.5	4.9	18.8	34.8	52.9	87.7	(D)	2.9	62.4
North Carolina	-	58	50	13.1	114.0	11.5	23.6	90.4	222.1	552.2	768.3	18.5	18.6	227.8
South Carolina	-	8	7	1.3	9.7	1.1	1.9	7.3	21.7	54.4	72.6	(D)	2.5	38.4
Georgia	-	26	23	4.4	40.0	3.9	8.0	32.1	70.1	131.0	201.9	8.0	2.5	42.9
East South Central Division:														
Tennessee	-	7	7	3.0	27.6	2.8	5.9	24.3	58.2	111.7	168.1	8.1	FF	(D)
Pacific Division:														
California	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Industry 2282-11, Manufacturers														
United States	-	**147**	**112**	**25.9**	**225.4**	**22.9**	**46.6**	**180.7**	**437.1**	**1 005.0**	**1 425.3**	**44.7**	**33.9**	**435.9**
New England Division:														
Massachusetts	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Rhode Island	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Middle Atlantic Division:														
New Jersey	E1	13	6	0.4	4.2	0.4	0.7	2.8	7.0	16.2	22.9	0.6	0.6	25.4
Pennsylvania	-	15	14	1.7	13.0	1.6	3.1	10.9	14.4	30.3	45.3	1.3	2.1	15.6
East North Central Division:														
Illinois	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Virginia	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
North Carolina	-	47	40	12.3	107.1	10.8	22.2	85.4	209.3	546.6	749.9	15.9	FF	(D)
South Carolina	-	6	5	1.1	8.7	1.0	1.6	6.5	19.0	53.3	68.8	1.6	EE	(D)
Georgia	-	20	18	3.0	27.7	2.6	5.8	22.8	49.4	124.3	174.8	5.1	EE	(D)
East South Central Division:														
Tennessee	-	7	7	3.0	27.6	2.8	5.9	24.3	58.2	111.7	168.1	8.1	FF	(D)
Pacific Division:														
California	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2282-51, Commission Mills														
United States	-	**49**	**36**	**4.6**	**36.9**	**4.1**	**7.9**	**29.7**	**59.9**	**25.8**	**84.8**	**6.5**	**4.1**	**41.8**
Middle Atlantic Division:														
Pennsylvania	-	13	11	1.1	8.5	1.0	2.0	7.1	11.7	5.1	16.8	0.3	1.8	13.5
South Atlantic Division:														
Virginia	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina	-	11	10	0.8	5.8	0.7	1.4	5.0	12.8	5.6	18.4	2.7	0.5	4.5
Georgia	-	6	5	1.4	12.2	1.2	2.2	9.4	20.6	6.6	27.1	3.0	BB	(D)
INDUSTRY 2283, WOOL YARN MILLS														
United States	-	**76**	**43**	**4.1**	**33.1**	**3.7**	**7.3**	**27.3**	**81.8**	**112.4**	**194.9**	**2.7**	**8.3**	**92.7**
New England Division:														
Maine	-	5	4	0.5	3.5	0.5	1.0	2.9	5.4	13.8	19.2	(D)	CC	(D)
Massachusetts	E1	6	4	0.3	2.0	0.2	0.5	1.7	3.0	1.9	4.8	(D)	0.3	2.6
Rhode Island	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	6.4
Connecticut	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
Pennsylvania	-	7	6	0.3	2.7	0.3	0.5	2.1	4.1	6.5	10.5	0.1	CC	(D)
East North Central Division:														
Wisconsin	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
North Carolina	-	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	13.4
South Carolina	-	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	-	13	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
INDUSTRY 2284, THREAD MILLS														
United States	-	**70**	**47**	**12.8**	**106.3**	**10.9**	**21.1**	**81.1**	**201.9**	**351.9**	**544.4**	**11.8**	**11.7**	**141.8**
New England Division:														
Massachusetts	-	8	7	0.6	5.8	0.5	1.0	3.5	11.2	9.5	20.4	0.4	0.6	7.3
Rhode Island	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Connecticut	-	4	4	1.7	14.5	1.4	2.9	10.6	30.3	27.6	58.6	(D)	EE	(D)
Middle Atlantic Division:														
Pennsylvania	-	6	5	0.6	4.6	0.5	1.0	3.7	8.9	14.8	23.9	(D)	0.5	5.2
South Atlantic Division:														
North Carolina	-	16	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	64.0
South Carolina	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Georgia	-	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
East South Central Division:														
Tennessee	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Yarn mills, except wool (SIC 2281)	Throwing and winding mills (SIC 2282)			Wool yarn mills (SIC 2283)	Thread mills (SIC 2284)
			Total	Manufacturers (SIC 2282-11)	Commission mills (SIC 2282-51)		
Primary product specialization ratio[1]	percent	92	92	(NA)	(NA)	90	96
Coverage ratio[2]	do	72	55	(NA)	(NA)	71	91
All establishments	number	456	196	147	49	76	70
With 1 to 19 employees	do	86	48	35	13	33	23
With 20 to 99 employees	do	74	72	50	22	29	14
With 100 employees or more	do	296	76	62	14	14	33
All employees, average for year	1,000	93.0	30.5	25.9	4.6	4.1	12.8
Payroll for year, all employees	mil. dol.	782.7	262.3	225.4	36.9	33.1	106.3
Production workers:							
Average for year	1,000	85.6	27.1	22.9	4.1	3.7	10.9
March	do	84.1	26.8	22.8	3.9	3.6	10.7
May	do	85.7	26.7	22.7	4.1	3.7	10.9
August	do	86.5	27.6	23.2	4.3	3.7	11.1
November	do	86.0	27.2	22.9	4.3	3.9	11.0
Hours	millions	175.2	54.5	46.6	7.9	7.3	21.1
January to March	do	43.0	13.3	11.6	1.8	1.7	5.2
April to June	do	45.2	14.4	12.4	2.0	2.0	5.5
July to September	do	43.2	13.4	11.3	2.1	1.7	5.1
October to December	do	43.8	13.4	11.3	2.1	2.0	5.3
Wages	mil. dol.	675.5	210.4	180.7	29.7	27.3	81.1
Cost of materials, etc.	do	2 382.5	1 030.9	1 005.0	25.8	112.4	351.9
Materials, parts, containers, etc., consumed	do	2 238.9	977.2	956.0	21.2	107.6	320.7
Resales	do	7.8	3.1	3.1	–	0.1	12.6
Fuels consumed	do	20.4	7.6	6.8	0.8	1.6	6.1
Purchased electric energy	do	103.0	34.4	31.1	3.3	2.6	11.4
Contract work	do	12.3	8.6	8.0	0.6	0.5	1.1
Value of shipments, including resales	do	3 864.9	1 510.1	1 425.3	84.8	194.9	544.4
Value of resales	do	9.6	4.4	4.4	–	0.1	14.6
Value added by manufacture	do	1 480.3	496.9	437.1	59.9	81.8	201.9
Manufacturers' inventories:							
Beginning of year	do	362.2	112.5	108.7	3.8	18.7	89.2
Finished products	do	105.0	39.4	38.1	1.4	5.3	38.5
Work in process	do	106.4	27.8	26.7	1.2	6.1	25.6
Materials, supplies, fuel, etc.	do	150.8	45.3	44.0	1.3	7.3	25.1
End of year	do	363.6	132.3	127.4	4.9	17.4	102.7
Finished products	do	98.7	49.1	47.4	1.7	4.9	44.2
Work in process	do	110.6	35.8	34.0	1.8	5.9	29.3
Materials, supplies, fuel, etc.	do	154.3	47.4	45.9	1.4	6.7	29.3
Capital expenditures for plant and equipment	do	138.8	57.4	48.4	9.0	3.6	12.8
New capital expenditures	do	114.4	51.1	44.7	6.5	2.7	11.8
New buildings and other structures	do	13.5	8.3	7.0	1.3	0.2	2.0
New machinery and equipment	do	101.0	42.9	37.7	5.2	2.5	9.8
Used capital expenditures	do	24.4	6.3	3.7	2.5	0.9	1.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Yarn mills, except wool (SIC 2281)		Throwing and winding mills (SIC 2282)		Wool yarn mills (SIC 2283)		Thread mills (SIC 2284)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	6.4	6	1.6	4	(0.2)	(A)	0.7	1
Response coverage ratio[2] (percent)	74.4	(X)	53.9	(X)	82.5	(X)	75.3	(X)
Machinery	51.4	4	10.6	7	0.7	12	4.9	6
Response coverage ratio[2] (percent)	67.3	(X)	62.6	(X)	78.3	(X)	69.8	(X)
Cost of purchased communication services	9.9	3	(1.8)	61	0.1	13	(0.8)	18
Response coverage ratio[2] (percent)	61.9	(X)	67.3	(X)	80.0	(X)	67.8	(X)
Rental payments	8.8	5	9.0	9	(1.1)	40	1.8	8
Buildings and other structures	3.6	3	(4.7)	29	0.4	11	(0.9)	18
Machinery and equipment	5.2	7	(4.3)	16	(0.6)	64	0.9	3
Supplemental labor costs	107.9	1	42.8	3	4.7	3	16.8	1
Legal costs	62.1	1	21.9	3	2.8	2	8.8	1
Voluntary costs	45.9	1	20.9	3	1.9	6	8.1	2
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	383.2	2	158.0	2	9.2	10	49.2	3
New capital expenditures	14.1	4	(6.8)	18	-	(X)	2.0	5
Used capital expenditures	5.2	2	0.9	1	-	(X)	-	(X)
Retirements	5.0	2	(1.8)	25	(0.1)	31	(0.2)	23
End of year	397.5	2	163.9	8	9.1	11	50.9	3
Machinery and equipment:								
Beginning of year	1,201.5	2	522.9	4	28.6	5	138.8	3
New capital expenditures	100.4	1	48.6	12	(3.2)	61	10.6	12
Automobiles, trucks, etc., for highway use[3]	(0.7)	(A)	(0.3)	(A)	-	(X)	(0.1)	(A)
Computers and peripheral data processing equipment[3]	(1.8)	(A)	(0.7)	(A)	-	(X)	(Z)	(A)
All other[3]	(87.7)	(A)	(28.8)	(A)	3.2	(A)	(8.3)	(A)
New machinery and equipment, n.s.k.[4]	(10.2)	(A)	(18.8)	(A)	-	(X)	(2.2)	(A)
Used capital expenditures	19.2	2	5.9	11	0.7	1	0.5	1
Retirements	59.7	1	21.1	8	(0.7)	20	3.2	8
End of year	1,261.4	2	556.4	2	31.9	4	146.7	2
Total gross value of depreciable assets:								
Beginning of year	1,584.6	2	680.9	1	37.8	6	187.9	3
New capital expenditures	114.5	2	55.4	10	(3.2)	60	12.6	10
Used capital expenditures	24.4	1	6.8	10	0.8	1	0.5	1
Retirements	64.7	1	22.9	10	(0.9)	22	3.4	9
End of year	1,658.8	2	720.3	1	40.9	4	197.6	2
Depreciation charges during 1977	98.4	2	52.1	6	2.4	5	10.8	9
Buildings and other structures	15.3	2	7.0	3	0.3	10	1.5	4
Machinery and equipment	83.1	2	45.2	6	2.1	6	9.3	10

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2281, YARN MILLS, EXCEPT WOOL												
Total	-	**456**	**93.0**	**782.7**	**85.6**	**175.2**	**675.5**	**1 480.3**	**2 382.5**	**3 864.9**	**114.4**	**363.6**
Establishments with an average of—												
1 to 4 employees	E7	46	0.1	0.6	0.1	0.1	0.5	0.6	1.5	2.4	0.3	0.2
5 to 9 employees	E9	16	0.1	0.8	0.1	0.2	0.7	1.1	2.1	3.2	0.1	0.3
10 to 19 employees	E6	24	0.3	2.6	0.3	0.6	2.3	4.5	8.9	13.3	0.3	1.9
20 to 49 employees	E1	28	1.0	8.0	0.9	1.8	6.9	16.8	19.9	36.3	1.2	4.4
50 to 99 employees	-	46	3.6	28.2	3.3	6.7	24.4	55.2	88.1	143.2	2.7	11.0
100 to 249 employees	-	171	28.3	239.0	26.3	53.2	205.4	461.8	753.4	1 214.6	47.1	106.8
250 to 499 employees	-	86	29.3	246.6	27.0	55.5	213.1	453.9	774.3	1 228.5	34.6	110.1
500 to 999 employees	-	31	19.1	164.5	17.4	36.6	143.2	314.4	466.0	785.7	17.1	77.7
1,000 to 2,499 employees	-	7	(11.2)	(92.4)	(10.1)	(20.5)	(78.1)	(172.0)	(268.3)	(437.7)	(11.0)	(51.1)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	64	0.5	4.0	0.5	1.0	3.5	6.2	10.9	17.2	0.5	1.8
INDUSTRY 2282, THROWING AND WINDING MILLS												
Total	-	**196**	**30.5**	**262.3**	**27.1**	**54.5**	**210.4**	**496.9**	**1 030.9**	**1 510.1**	**51.1**	**132.3**
Establishments with an average of—												
1 to 4 employees	E9	17	(Z)	0.2	(Z)	(Z)	0.2	0.5	1.0	1.5	0.1	0.1
5 to 9 employees	E7	8	0.1	0.4	(Z)	0.1	0.3	0.8	1.4	2.2	0.1	0.2
10 to 19 employees	E8	23	0.3	2.9	0.3	0.6	2.2	5.0	7.4	12.5	0.4	0.9
20 to 49 employees	E1	32	1.0	7.5	0.8	1.6	5.8	11.8	26.1	38.5	0.9	4.2
50 to 99 employees	-	40	3.0	23.8	2.6	5.1	17.9	46.3	89.1	134.5	5.7	11.7
100 to 249 employees	-	34	5.4	44.7	4.9	10.0	37.0	74.4	152.9	225.2	8.3	24.7
250 to 499 employees	-	27	9.6	83.0	8.6	17.2	68.1	152.8	322.1	469.9	21.6	40.9
500 to 999 employees	-	14	(11.1)	(99.6)	(9.8)	(19.9)	(78.9)	(205.4)	(430.8)	(625.8)	(14.1)	(49.6)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	43	0.5	3.8	0.4	0.8	3.0	6.4	12.4	18.8	0.6	1.4
Industry 2282-11, Manufacturers												
Total	-	**147**	**25.9**	**225.4**	**22.9**	**46.6**	**180.7**	**437.1**	**1 005.0**	**1 425.3**	**44.7**	**127.4**
Establishments with an average of—												
1 to 4 employees	E9	17	(Z)	0.2	(Z)	(Z)	0.2	0.5	1.0	1.5	0.1	0.1
5 to 9 employees	E9	6	(0.2)	(1.8)	(0.2)	(0.4)	(1.4)	(3.4)	(7.2)	(10.7)	(0.4)	(0.8)
10 to 19 employees	E0	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E1	22	0.7	5.3	0.6	1.1	4.1	8.4	24.6	33.6	0.6	3.9
50 to 99 employees	-	28	2.2	17.0	1.9	3.6	12.6	33.8	83.0	116.1	3.4	10.4
100 to 249 employees	-	25	4.2	35.9	3.7	7.8	29.7	63.1	145.2	206.0	7.4	23.4
250 to 499 employees	-	23	(18.6)	(165.1)	(16.5)	(33.7)	(132.7)	(327.8)	(744.1)	(1 057.5)	(32.8)	(88.7)
500 to 999 employees	-	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	33	0.3	2.8	0.3	0.6	2.2	5.3	11.2	16.4	0.6	1.3
Industry 2282-51, Commission Mills												
Total	-	**49**	**4.6**	**36.9**	**4.1**	**7.9**	**29.7**	**59.9**	**25.8**	**84.8**	**6.5**	**4.9**
Establishments with an average of—												
5 to 9 employees	E4	2	(0.2)	(1.5)	(0.2)	(0.3)	(1.1)	(2.4)	(1.6)	(4.0)	(0.1)	(0.2)
10 to 19 employees	E4	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E1	10	0.3	2.2	0.3	0.5	1.7	3.3	1.6	4.9	0.3	0.3
50 to 99 employees	-	12	0.9	6.8	0.7	1.5	5.3	12.5	6.1	18.4	2.3	1.3
100 to 249 employees	-	9	1.3	8.8	1.2	2.2	7.4	11.3	7.7	19.2	0.9	1.3
250 to 499 employees	-	4	(2.0)	(17.5)	(1.8)	(3.4)	(14.3)	(30.4)	(8.8)	(38.2)	(2.9)	(1.8)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	10	0.2	1.1	0.1	0.3	0.9	1.2	1.2	2.4	(Z)	0.1
INDUSTRY 2283, WOOL YARN MILLS												
Total	-	**76**	**4.1**	**33.1**	**3.7**	**7.3**	**27.3**	**81.8**	**112.4**	**194.9**	**2.7**	**17.4**
Establishments with an average of—												
1 to 4 employees	E9	18	(Z)	0.1	(Z)	(Z)	0.1	0.2	0.4	0.7	(Z)	0.1
5 to 9 employees	E0	7	0.1	0.4	0.1	0.1	0.3	1.0	1.2	2.1	(Z)	0.3
10 to 19 employees	E6	8	0.1	0.9	0.1	0.2	0.7	1.9	2.7	4.7	0.1	0.7
20 to 49 employees	E2	14	0.5	4.4	0.4	0.9	3.4	8.3	8.5	16.5	0.4	2.5
50 to 99 employees	-	15	1.0	8.4	0.9	1.8	6.8	17.5	21.5	39.0	(2.1)	3.2
100 to 249 employees	-	11	1.4	10.7	1.3	2.8	8.9	39.4	56.7	96.8	(D)	6.8
250 to 499 employees	-	3	1.0	8.2	0.9	1.6	7.1	13.5	21.4	35.1	(D)	3.8
Covered by administrative records[2]	E0	30	0.2	1.9	0.2	0.4	1.5	3.9	4.6	8.5	0.1	1.3
INDUSTRY 2284, THREAD MILLS												
Total	-	**70**	**12.8**	**106.3**	**10.9**	**21.1**	**81.1**	**201.9**	**351.9**	**544.4**	**11.8**	**102.7**
Establishments with an average of—												
1 to 4 employees	E7	8	(Z)	0.2	(Z)	(Z)	0.1	0.4	0.9	1.3	(Z)	0.3
5 to 9 employees	E6	6	(Z)	0.4	(Z)	0.1	0.2	0.6	1.2	1.7	(Z)	0.3
10 to 19 employees	E9	9	0.1	1.0	0.1	0.2	0.7	1.4	2.3	3.7	0.1	0.7
20 to 49 employees	-	8	0.3	2.8	0.2	0.4	1.6	7.0	11.8	19.1	(1.3)	2.5
50 to 99 employees	-	6	0.4	2.6	0.3	0.6	2.0	5.4	6.3	11.8	(D)	2.7
100 to 249 employees	-	15	2.6	20.7	2.1	4.0	14.5	43.1	54.6	96.8	3.5	13.8
250 to 499 employees	-	12	4.1	35.0	3.7	7.3	28.1	72.0	89.0	157.3	(6.9)	32.4
500 to 999 employees	-	4	(5.3)	(43.7)	(4.4)	(8.4)	(34.0)	(72.1)	(185.8)	(252.7)	(D)	(50.0)
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	20	0.2	1.3	0.1	0.3	0.9	2.0	3.6	5.6	0.1	1.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2281	**Yarn mills, except wool:**										
	Entire industry	456	93.0	782.7	85.6	175.2	675.5	1 480.3	2 382.5	3 864.9	114.4
	Establishments with 75 percent specialization or more	401	78.8	663.9	72.9	149.5	574.6	1 243.6	2 026.8	3 274.2	103.4
22811	Carded cotton yarns:										
	Establishments with this product class primary	81	15.9	126.3	14.8	29.4	109.5	235.9	411.5	647.3	27.1
	Establishments with 75 percent specialization or more in class	65	11.8	93.8	10.9	21.7	80.5	176.5	321.3	497.2	18.9
22812	Combed cotton yarns:										
	Establishments with this product class primary	42	11.3	90.5	10.7	21.7	80.8	175.5	261.8	438.7	14.3
	Establishments with 75 percent specialization or more in class	28	7.1	58.0	6.8	13.9	52.1	116.4	175.5	292.9	9.2
22813	Rayon and/or acetate spun yarns:										
	Establishments with this product class primary	20	3.5	29.6	3.3	7.1	25.6	41.4	76.2	118.9	2.4
	Establishments with 75 percent specialization or more in class	13	2.5	21.2	2.3	5.1	18.5	29.3	57.4	87.6	(D)
22814	Spun noncellulosic fiber and silk yarns:										
	Establishments with this product class primary	204	59.2	509.9	53.9	110.9	436.2	974.4	1 592.3	2 567.6	68.2
	Establishments with 75 percent specialization or more in class	152	34.4	304.4	31.4	65.6	260.0	594.1	965.3	1 559.1	48.4
2282	**Throwing and winding mills:**										
	Entire industry	196	30.5	262.3	27.1	54.5	210.4	496.9	1 030.9	1 510.1	51.1
	Establishments with 75 percent specialization or more	182	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22822	Rewound, plied, etc., yarns, except wool:										
	Establishments with this product class primary	12	2.6	25.4	2.3	4.4	18.8	57.6	85.0	131.9	2.2
	Establishments with 75 percent specialization or more in class	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22823	Thrown filament yarns, except textured:										
	Establishments with this product class primary	25	2.7	21.1	2.4	4.7	17.5	34.6	70.3	105.7	2.6
	Establishments with 75 percent specialization or more in class	21	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22825	Textured filament yarns, including stretch yarns:										
	Establishments with this product class primary	74	21.9	190.1	19.4	39.5	153.4	361.6	839.4	1 193.3	38.7
	Establishments with 75 percent specialization or more in class	62	17.5	150.9	15.5	31.2	120.0	282.2	695.6	972.5	(D)
22829	Commission throwing, plying, etc. of yarns:										
	Establishments with this product class primary	33	2.3	17.2	2.0	4.0	14.0	28.8	11.4	40.0	4.8
	Establishments with 75 percent specialization or more in class	29	1.8	14.1	1.7	3.3	11.4	24.1	6.2	30.1	(D)
2283	**Wool yarn mills:**										
	Entire industry	76	4.1	33.1	3.7	7.3	27.3	81.8	112.4	194.9	2.7
	Establishments with 75 percent specialization or more	65	3.4	27.2	3.1	6.1	22.3	70.0	92.5	163.0	2.6
22831	Wool yarns, except carpet:										
	Establishments with this product class primary	21	2.1	16.4	2.0	3.9	13.8	53.7	69.8	124.2	1.8
	Establishments with 75 percent specialization or more in class	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22832	Wool yarns, carpet:										
	Establishments with this product class primary	10	1.0	9.3	0.9	1.8	7.6	14.5	29.0	43.5	0.1
	Establishments with 75 percent specialization or more in class	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2284	**Thread mills:**										
	Entire industry	70	12.8	106.3	10.9	21.1	81.1	201.9	351.9	544.4	11.8
	Establishments with 75 percent specialization or more	66	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22841	Finished thread for use in the home:										
	Establishments with this product class primary	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22842	Finished thread for industrial use:										
	Establishments with this product class primary	36	10.2	85.3	8.6	16.6	63.4	170.2	299.1	460.3	10.1
	Establishments with 75 percent specialization or more in class	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22843	Unfinished thread shipped for finishing:										
	Establishments with this product class primary	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2281	Yarn mills, except wool....1977..	3,864.9	3,491.9	272.1	100.9	92	4,825.8	3,491.9	1,333.9	[1]72
	1972..	2,250.6	2,006.1	183.2	61.3	92	2,768.4	2,437.9	330.5	[1]88
	1967..	1,422.5	1,317.5	71.3	33.7	95	1,715.7	1,458.6	257.1	[1]85
2282	Throwing and winding mills....1977..	1,510.1	1,362.9	111.1	36.1	92	2,449.1	1,362.9	1,086.2	[2]55
	1972..	1,427.6	1,295.5	83.1	49.0	94	1,748.8	1,295.5	453.3	74
	1967..	568.0	529.3	15.2	23.5	97	583.2	529.3	53.9	([3])
2283	Wool yarn mills....1977..	194.9	168.0	16.7	10.2	90	234.4	168.0	66.4	71
	1972..	225.1	152.6	59.2	13.3	72	222.7	152.6	70.1	69
	1967..	361.5	268.0	71.6	21.9	79	335.5	268.0	67.5	80
2284	Thread mills....1977..	544.4	504.0	20.9	19.5	96	551.1	504.0	47.1	91
	1972..	345.4	307.8	26.6	11.0	92	340.3	307.8	32.5	90
	1967..	256.6	223.3	24.2	9.1	90	248.1	223.3	24.8	90

[1]Includes shipments of $670 million from establishments classified in Industry 2269, Finishing Plants, N.E.C. Coverage ratio computed on basis of including both industries to which yarns (gray and finished) are primary would total 84 percent. Totals would be 86 percent and 84 percent for 1972 and 1967, respectively.

[2]Includes shipments of $891 million from establishments classified in Industry 2824, Organic Fibers, Noncellulosic. Coverage ratio computed on basis of including both industries to which textured yarns are primary would total 87 percent; in 1972, 74 percent.

[3]For 1967, data on textured yarn exclude production and shipments by establishments producing filament yarn and classified in industries 2823 and 2824. Due to exclusion of these data, it is not possible to calculate a coverage ratio for 1967.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Yarn mills, except wool (SIC 2281)	Throwing and winding mills (SIC 2282)	Wool yarn mills (SIC 2283)	Thread mills (SIC 2284)	Other industries
	Total	(X)	3,864.9	1,510.1	194.9	544.4	(X)
	Primary products	(X)	3,491.9	1,362.9	168.0	504.0	(X)
	Secondary products	(X)	272.1	111.1	16.7	20.9	(X)
	Miscellaneous receipts	(X)	100.9	36.1	10.2	19.5	(X)
2281-	Yarns, except wool	4,825.8	3,491.9	(D)	(D)	(D)	648.5
22811 22690 pt.	Carded cotton yarns	963.7	640.7	-	-	-	323.0
22812 22690 pt.	Combed cotton yarns	604.0	493.1	-	-	(D)	(D)
22813 22690 pt.	Rayon and/or acetate spun yarns	233.5	160.2	-	(D)	(D)	(D)
22814 22690 pt.	Spun noncellulosic fiber and silk yarns	2,979.7	2,153.7	(D)	(D)	(D)	812.1
22810	Yarn, except wool, n.s.k.	44.9	44.1	-	-	-	0.8
2282-	Textured, thrown, and rewound yarns	2,449.1	134.2	1,362.9	(D)	-	(D)
22822	Rewound, plied, etc., yarns, other than wool	109.3	(D)	96.5	-	-	(D)
22823	Thrown filament yarns, except textured	136.1	(D)	107.2	(D)	-	(D)
22825	Textured filament yarns, including stretch yarn	2,111.4	98.6	1,074.1	-	-	938.7
22829	Throwing and winding mill products	61.5	(D)	(D)	-	-	(D)
22820	Textured, thrown, and rewound yarns, n.s.k.	30.8	-	(D)	-	-	(D)
2283-	Wool yarns	234.4	(D)	-	168.0	(D)	(D)
22831	Wool yarns, except carpet	177.6	28.9	-	121.0	-	27.7
22832	Wool yarns, carpet	37.4	(D)	-	27.5	(D)	(D)
22830	Wool yarn, n.s.k.	19.4	-	-	19.4	-	-
2284-	Thread	551.1	35.4	(D)	(D)	504.0	(D)
22841	Finished thread for use in home	(D)	(D)	-	(D)	39.1	-
22842	Finished thread for industrial use	408.7	(D)	(D)	-	(D)	(D)
22843	Unfinished thread shipped for finishing	(D)	(D)	(D)	-	(D)	-
22840	Thread, n.s.k.	7.4	-	-	-	7.4	(Z)
	Other shipments by 4-digit product group:						
2221-	Manmade fiber and silk broad woven fabrics	(X)	(D)	(D)	-	-	(X)
2231-	Broad woven wool fabrics	(X)	(D)	(D)	(D)	-	(X)
2257-	Circular knit fabrics	(X)	(D)	(D)	-	-	(X)
2269-	Finishing plant products, n.e.c.	(X)	(D)	(D)	-	-	(X)
2298-	Cordage and twine	(X)	(D)	-	-	-	(X)
2299-	Textile goods, n.e.c.	(X)	(D)	-	(D)	(D)	(X)
2381-	Fabric dress and work gloves	(X)	-	-	(D)	-	(X)
2824-	Organic fibers, noncellulosic	(X)	-	-	-	(D)	(X)
2992-	Lubricating oils and greases	(X)	-	(D)	-	-	(X)
3964-	Needles, pins, and fasteners	(X)	(D)	(D)	-	(D)	(X)
	Miscellaneous receipts:						
93000 00	Contract work	(X)	79.1	30.1	9.9	3.1	(X)
99980 00	Other miscellaneous receipts	(X)	12.1	1.6	.2	1.7	(X)
99989 00	Resales	(X)	9.6	4.4	.1	14.6	(X)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2281-	2211 Weaving mills, cotton	(D)
	2221 Weaving mills, manmade fibers and silk	(D)
	2231 Weaving and finishing mills, wool	(D)
	2257 Circular knit fabric mills	(D)
	2272 Tufted carpets and rugs	(D)
	2296 Tire cord and fabric	(D)
	2824 Organic fibers, noncellulosic	(D)
2282-	2211 Weaving mills, cotton	(D)
	2221 Weaving mills, manmade fibers and silk	28.2
	2257 Circular knit fabric mills	(D)
	2272 Tufted carpets and rugs	(D)
2283-	2211 Weaving mills, cotton	(D)
	2231 Weaving and finishing mills, wool	(D)

Other industries with over $5 million shipments of primary products--Con.

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix B, Value of shipments)

1977 product code	Product	Unit of measure	1977					1972			
			Number of companies with shipments of $100,000 or more	Product shipments including interplant transfers[1]		Interplant transfers[1]		Product shipments including interplant transfers		Interplant transfers	
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)
	YARN MILLS, EXCEPT WOOL										
2281- --	Yarn, except wool	Million lb.	(NA)	(X)	4,825.8	(X)	(X)	(X)	2,768.4	(X)	(X)
	Spun cotton and manmade fiber yarns		(NA)	(X)	4,156.3	(X)	(X)	(X)	2,336.5	(X)	(X)
2269 pt.	Finished yarn not spun in the same establishment		(NA)	(X)	669.5	(X)	(X)	(X)	431.8	(X)	(X)
22811 -- 22690 pt.	Carded cotton yarns		(NA)	(X)	963.7	(X)	(X)	(X)	548.6	(X)	(X)
22811 10	Carded cotton yarns (gray)		76	708.3	846.1	246.5	305.7	718.6	491.5	195.3	118.8
	Carded cotton yarns, finished:										
22811 87	Finished in plants with spinning facilities		16	57.5	58.7	(S)	(S)	37.3	27.9	(X)	(X)
22690 21	Finished from purchased yarns	Million lb.	13	39.7	58.1	(X)	(X)	30.0	24.9	(X)	(X)
22811 00	Carded cotton yarns, n.s.k.		(NA)	(X)	.8	(X)	(X)	(X)	4.3	(X)	(X)
22812 -- 22690 pt.	Combed cotton yarns		(NA)	(X)	604.0	(X)	(X)	(X)	393.8	(X)	(X)
22812 10	Combed cotton yarns (gray)	Million lb.	52	317.2	474.9	95.7	142.7	303.9	281.0	65.5	69.7
	Combed cotton yarns, dyed:										
22812 51	Finished in plants with spinning facilities		9	29.1	55.3	(X)	(X)	44.9	60.2	(X)	(X)
22690 23	Finished from purchased yarns		10								
	Yarns, mercerized cotton:										
22812 61	Mercerized in plants with spinning facilities		2	19.5	47.5	(X)	(X)	15.4	22.0	(X)	(X)
22690 39	Mercerized form purchased yarns		9								
	Yarns, bleached:										
22812 71	Finished in plants with spinning facilities		5	7.2	10.7	(S)	(S)	27.6	30.6	(X)	(X)
22690 12	Finished from purchased yarns	Million lb.	11	**8.8	15.6	(X)	(X)				
22812 00	Combed cotton yarns, n.s.k.		(NA)	(X)	-	(X)	(X)	(X)	-	(X)	(X)
22813 -- 22690 pt.	Rayon and/or acetate spun yarns		(NA)	(X)	233.5	(X)	(X)	(X)	247.9	(X)	(X)
22813 10	Rayon and/or acetate spun yarns (gray)	Million lb.	40	137.9	157.8	38.2	45.1	274.4	195.1	86.6	54.5
	Rayon and/or acetate spun yarns, finished:										
22813 43	Finished in plants with spinning facilities		10	26.3	35.8	(S)	(S)	21.8	20.6	(X)	(X)
22690 26	Finished from purchased yarns	Million lb.	12	32.8	34.0	(X)	(X)	23.7	22.6	(X)	(X)
22813 00	Rayon and/or acetate spun yarns, n.s.k.		(NA)	(X)	5.9	(X)	(X)	(X)	9.6	(X)	(X)
22814 -- 22690 pt.	Spun noncellulosic fiber and silk yarns (nylon, acrylic, polyester, etc.)		(NA)	(X)	2,979.7	(X)	(X)	(X)	1,529.3	(X)	(X)
	Polyester spun yarns:										
22814 20	Polyester spun yarns (gray)	Million lb.	73	633.6	728.3	205.9	254.4	362.7	299.5	88.6	74.8
	Polyester spun yarns, finished:										
22814 41	Finished in plants with spinning facilities		30	265.1	284.2	60.5	58.2	41.6	32.2	(X)	(X)
	Finished from purchased yarns:										
22690 31	Polyester blends with cotton		12	60.1	63.0	(X)	(X)	86.8	133.6	(X)	(X)
22690 33	All other polyester		18	76.7	129.2	(X)	(X)				
	All other spun noncellulosic fiber and silk yarn, except polyester:										
22814 80	All other spun noncellulosic fiber and silk yarn, except polyester (gray)		73	805.4	1,034.3	128.4	168.8	716.8	718.6	163.3	174.9
22814 81	Finished in plants with spinning facilities		49	353.8	431.4	136.5	154.7	165.8	181.5	(X)	(X)
	Finished from purchased yarns:										
22690 30	Acrylic and/or modacrylic		11	39.4	78.4	(X)	(X)	109.3	154.8	(X)	(X)
22690 34	All other spun noncellulosic and silk yarn		26	152.7	223.3	(X)	(X)				
22814 00	Spun noncellulosic fiber and silk yarns (nylon, acrylic, polyester, etc.), n.s.k.	Million lb.	(NA)	(X)	7.6	(X)	(X)	(X)	9.1	(X)	(X)

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For futher explanation, see appendix B, Value of shipments)

1977 product code	Product	Unit of measure	1977				1972			
			Number of companies with shipments of $100,000 or more	Product shipments including interplant transfers[1]		Interplant transfers[1]		Product shipments including interplant transfers		Interplant transfers	
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)
22810 --	YARNS MILLS, EXCEPT WOOL--Con.										
22810 00	Cotton and manmade fiber spun yarns, n.s.k., typically for establishments with 5 employees or more (see note)	Million lb.	(NA)	(X)	27.7	(X)	(X)	(X)	44.4	(X)	(X)
22810 02	Cotton and manmade fiber spun yarns, n.s.k., typically for establishments with less than 5 employees (see note)	Million lb.	(NA)	(X)	17.2	(X)	(X)	(X)	4.3	(X)	(X)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	THROWING AND WINDING MILLS						
2282- -- 2824 pt.	Textured, thrown, and rewound yarn	.....	(NA)	(X)	2,449.1	(X)	1,748.8
22822 --	Rewound, plied, etc., yarns, other than wool (not spun or thrown at same establishment):						
22822 11	Rewound, plied, and novelty yarns, other than wool (not spun or thrown at same establishment)	.....	17	(X)	109.3	(X)	100.7
22823 --	Thrown filament yarns, except textured	.....	(NA)	(X)	136.1	(X)	119.1
22823 27	Weaving yarns	Million lb.	11	13.8	21.3	19.1	37.1
22823 32	Machine knitting yarns		13	31.6	47.4	37.1	57.0
22823 35	Other thrown yarns	Million lb.	20	48.2	67.4	20.3	18.5
22823 00	Thrown filament yarns, except textured, n.s.k.	.....	(NA)	(X)	-	(X)	6.5
22825 -- 28246 --	Textured, crimped, or bulked filament yarns, including stretch yarns	.....	(NA)	[3]1,900.4	[3]2,111.4	1,239.1	1,465.6
22825 00	Textured, crimped, or bulked filament yarns, including stretch yarns, made from purchased yarns	Million lb.	70	1,006.2	1,220.7		
28246 --	Producer textured manmade fibers, group (multi) filament (produced and textured in same plant)	.....	(NA)	894.2	890.7	1,239.1	1,465.6
28246 15	Nylon	.....	7	385.8	421.0		
28246 31	Acrylic or modacrylic	.....	-	-	-		
28246 51	Polyester	.....	10	406.2	357.8	(3)	(3)
28246 62	Polyelefin	.....	3	102.2	111.9		
28246 71	Other noncellulosic manmade fiber filaments	.....	1				
22829 --	Commission throwing, plying, etc., of yarns	.....	(NA)	(X)	61.5	(X)	54.5
22829 11	Receipts for throwing or texturing of filament yarns	.....	36	(X)	39.7	(X)	33.3
22829 51	Receipts for winding, warping, etc., of yarn not thrown or spun at same establishment	.....	13	(X)	17.3	(X)	18.8
22829 00	Receipts for throwing, plying, etc., of yarn, n.s.k.	.....	(NA)	(X)	2.1	(X)	2.4
22829 02	Commission receipts for throwing, plying, etc., of yarn n.s.k., typically for establishments with less than 5 employees	.....	(NA)	(X)	2.4	(X)	(X)
22820 00	Textured, thrown, and rewound yarn, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	14.4	(X)	8.0
22820 02	Textured, thrown, and rewound yarn, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	16.4	(X)	.9

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix B, Value of shipments)

1977 product code	Product	Unit of measure	Number of companies with shipments of $100,000 or more	1977				1972			
				Product shipments including interplant transfers[1]		Interplant transfers[1]		Product shipments including interplant transfers[1]		Interplant transfers	
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)
	WOOL YARN MILLS										
2283- --	Wool yarn[4]	.....	(NA)	(X)	234.4	30.1	71.2	(X)	222.7	52.6	73.5
22831 --	Wool yarns, except carpet, including yarns spun and finished at same establishment:										
22831 00	Wool yarns, except carpet yarns, including blends chiefly wool (new, reused, and reprocessed wool)	Million lb.	32	61.1	177.6	19.2	48.9	78.2	133.0	15.6	29.4
22832 --	Wool yarns, carpet:										
22832 00	Wool carpet (weaving and tufting) yarns, including blends chiefly wool (new, reused, and reprocessed wool)	Million lb.	15	*18.4	37.4	*10.9	22.3	58.5	73.0	37.0	44.1
22830 00	Wool yarns, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	10.9	-	-	(X)	14.8	-	-
22830 02	Wool yarns, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	8.5	-	-	(X)	1.9	-	-

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
	THREAD MILLS						
2284- --	Total	.....	(NA)	(X)	551.1	(X)	340.3
22841 --	Finished thread for use in the home	.....	9	(X)	(D)	(X)	39.7
22841 21	Cotton thread	Million lb....	8	9.5	18.4	(5)	25.0
22841 57	Manmade fiber thread and other thread	.....	7	13.4	26.6	(5)	14.4
22841 00	Finished thread for use in the home, n.s.k.	Million lb....	(NA)	(X)	(D)		.3
22842 --	Finished thread for industrial or manufacturers' use	.....	41	(X)	408.7	(X)	239.0
22842 13	Cotton thread, including industrial weight goods and braided	Million lb....	19	44.9	133.1	(5)	161.9
22842 25	Manmade fiber thread and other thread	Million lb....	32	110.6	275.6	(5)	76.3
22842 00	Finished thread for industrial or manufacturers' use, n.s.k.	.....	(NA)	(X)	-		.8
22843 --	Unfinished thread shipped or transferred to other plants for finishing:						
22843 11	Unfinished thread shipped or transferred to other plants for finishing	Million lb....	3	(D)	(D)	(5)	56.4
22840 00	Thread, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	1.8	(X)	2.9
22840 02	Thread, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	5.6	(X)	2.3

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]For 1972, these data were included in product class 22824. For 1977, product class 22824 was split into product classes 22825 and 28246.

[4]See Current Industrial Report MA-22F, Yarn Production, for more product detail.

[5]For 1972, data were not shown because of inadequate reporting.

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
22811, CARDED COTTON YARNS		
United States	905.6	523.7
South Atlantic Division:		
North Carolina	361.8	239.9
South Carolina	113.8	GG
Georgia	216.5	107.6
East South Central Division:		
Alabama	198.7	101.2
West South Central Division:		
Texas	6.4	BB
22812, COMBED COTTON YARNS		
United States	520.6	297.9
South Atlantic Division:		
North Carolina	398.3	233.6
South Carolina	22.4	14.9
Georgia	24.3	12.2
East South Central Division:		
Alabama	54.4	FF
22813, RAYON AND/OR ACETATE SPUN YARNS		
United States	199.4	225.3
South Atlantic Division:		
North Carolina	107.8	130.3
South Carolina	45.2	35.5
Georgia	17.2	FF
22814, SPUN NONCELLULOSIC FIBER AND SILK YARNS		
United States	2,979.7	1,240.9
New England Division:		
Massachusetts	16.4	17.5
Middle Atlantic Division:		
Pennsylvania	31.9	FF
South Atlantic Division:		
Virginia	83.7	21.4
North Carolina	1,064.2	531.3
South Carolina	342.7	175.6
Georgia	592.9	289.2
East South Central Division:		
Tennessee	35.9	CC
Alabama	150.8	70.2
Pacific Division:		
California	47.3	EE
22822, REWOUND, PLIED, ETC., YARNS, OTHER THAN WOOL		
United States	109.3	100.7
Middle Atlantic Division:		
Pennsylvania	5.9	4.4
South Atlantic Division:		
Georgia	4.9	EE
22823, THROWN FILAMENT YARNS, EXCEPT TEXTURED		
United States	136.1	119.1
New England Division:		
Rhode Island	3.1	AA
22823, THROWN FILAMENT YARNS, EXCEPT TEXTURED--Con.		
South Atlantic Division:		
Virginia	12.9	CC
Georgia	47.8	14.6
Pacific Division:		
California	16.3	(NA)
22825, TEXTURED FILAMENT YARNS, INCLUDING STRETCH YARN		
United States	1,220.7	1,465.6
Middle Atlantic Division:		
Pennsylvania	30.1	43.0
South Atlantic Division:		
Virginia	58.8	112.4
North Carolina	746.3	678.9
South Carolina	58.9	293.9
Georgia	175.0	62.5
East South Central Division:		
Tennessee	102.3	GG
22829, THROWING AND WINDING MILL PRODUCTS		
United States	61.5	54.5
Middle Atlantic Division:		
Pennsylvania	11.3	18.0
South Atlantic Division:		
North Carolina	12.8	17.4
Georgia	20.8	CC
22831, WOOL YARNS, EXCEPT CARPET		
United States	177.6	133.0
New England Division:		
Maine	30.0	EE
Connecticut	3.5	BB
Middle Atlantic Division:		
Pennsylvania	5.5	3.8
South Atlantic Division:		
South Carolina	25.2	EE
Georgia	47.9	29.4
22832, WOOL YARNS, CARPET		
United States	37.4	73.0
Middle Atlantic Division:		
Pennsylvania	7.2	CC
South Atlantic Division:		
Georgia	6.5	EE
22842, FINISHED THREAD FOR INDUSTRIAL USE		
United States	408.7	239.0
New England Division:		
Massachusetts	16.8	EE
Connecticut	51.9	46.4
Middle Atlantic Division:		
New York	4.4	BB
South Atlantic Division:		
North Carolina	185.8	110.8
Georgia	40.1	FF

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available.

Table 6c. **Product Classes — Value Shipped by All Producers: 1963, 1967, and 1972 to 1977**

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2281-	Yarns, except wool	4,156.4	3,625.3	2,637.3	3,063.8	2,782.6	2,336.5	1,574.6	1,183.7
22811	Carded cotton yarns	905.6	749.4	526.4	657.5	569.9	523.7	404.6	377.1
22812	Combed cotton yarns	520.6	422.3	291.4	387.9	305.1	297.9	304.1	310.5
22813	Rayon and/or acetate spun yarns	199.4	212.7	167.0	236.1	255.1	225.3	190.9	153.4
22814	Spun noncellulosic fiber and silk yarns	2,485.9	2,215.3	1,628.9	1,732.4	1,623.5	1,240.9	642.5	326.5
22810	Yarn, except wool, n.s.k.	44.9	(25.6)	(23.6)	(49.9)	29.0	48.7	32.5	16.2
2282-	Textured, thrown, and rewound yarns	1,558.3	2,074.8	2,123.1	2,245.7	2,156.1	1,748.8	583.2	331.4
22822	Rewound, plied, etc., yarns, other than wool	109.3	112.7	93.4	110.9	120.7	100.7	71.6	69.0
22823	Thrown filament yarns, except textured	136.1	90.1	87.5	131.8	80.4	119.1	81.4	75.9
22825	Textured filament yarns, including stretch yarn	1,220.7	1,804.5	1,885.2	1,938.5	1,877.9	1,465.6	365.8	158.1
22829	Throwing and winding mill products	61.5	53.5	48.8	56.1	68.7	54.5	44.9	28.4
22820	Textured, thrown, and rewound yarns, n.s.k.	30.8	14.0	8.2	8.4	8.4	8.9	19.5	-
2283-	Wool yarns	234.4	211.2	154.8	157.2	200.5	222.7	335.5	411.8
22831	Wool yarns, except carpet	177.6	158.9	116.7	110.3	126.2	133.0	239.1	271.1
22832	Wool yarns, carpet	37.4	53.1	38.9	46.9	57.7	73.0	78.7	140.7
22830	Wool yarn, n.s.k.	19.4	([2])	([2])	(Z)	16.6	16.7	17.7	-
2284-	Thread	551.1	461.8	392.4	429.9	389.3	340.3	248.1	194.3
22841	Finished thread for use in the home	(D)	(46.6)	54.7	47.5	43.6	39.7	28.3	27.5
22842	Finished thread for industrial use	408.7	342.9	280.0	317.4	276.1	239.0	175.9	131.5
22843	Unfinished thread shipped for finishing	(D)	72.5	57.9	65.0	63.8	56.4	40.8	32.5
22840	Thread, n.s.k.	7.4	([2])	([2])	0.0	5.8	5.2	3.1	2.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.s.k. Not specified by kind. (Z) Less than 50 thousand dollars or less than half the unit of measure specified.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]Withheld because estimated figure is negative. This is consequence of using difference method of estimation (see Estimating Procedures in appendix B) and of improved establishment reporting that resulted in changing classification of shipments from n.s.k. code for 1972 Census to specified 5-digit product classes for this year. Four-digit total is best estimate, even though smaller than sum of 5-digit values.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix B, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2281, YARN MILLS, EXCEPT WOOL					
	Materials, containers, and supplies	.....	(X)	2,238.9	(X)	1,317.8
013101	Raw cotton	1,000 bales	1,654.8	620.6	1,988.4	335.6
229931	Raw wool, mohair, and other animal fiber (scoured weight)	Million lb	4.5	5.2	31.0	22.2
229933	Wool tops		10.8	30.1	12.2	15.3
282305	Rayon and acetate staple and tow		141.8	83.5	282.7	96.0
282425	Polyester staple and tow		692.8	411.8	310.4	143.9
282413	Nylon staple and tow		626.0	416.4		
282426	Acrylic staple and tow		340.3	270.1	772.5	456.5
282428	All other manmade fiber staple and tow, except glass		30.2	23.9		
010014	All other fibers (silk, jute, reused wool, waste, etc.)		17.9	6.4	15.6	6.7
282301	Rayon and acetate filament yarn		2.9	3.6	(D)	(D)
282423	Polyester filament yarn		7.1	7.3	34.4	26.4
282407	All other manmade filament yarn, except glass		99.6	97.8	35.4	29.3
228101	Purchased spun yarn, all fibers, including transfers from other plants of the same company	Million lb	81.9	60.2	61.4	38.4
280031	Dyes, lakes, and toners	.....	(X)	22.3	(X)	23.3
970099	All other materials and components, parts, containers, and supplies	.....	(X)	148.9	(X)	88.5
971000	Materials, containers, and supplies, n.s.k.[2] [4]	.....	(X)	30.8	(X)	33.0
	INDUSTRY 2282, THROWING AND WINDING MILLS					
	Materials, containers, and supplies	.....	(X)	977.2		
282301	Rayon and acetate filament yarn	Million lb	*4.3	4.8		
282423	Polyester filament yarn		705.8	526.8		
282411	Nylon filament yarn		235.2	248.2		
282407	All other manmade filament yarn, except glass		75.9	41.9		
228101	Purchased spun yarn, all fibers, including transfers from other plants of same company	Million lb	50.7	55.0	(3)	(3)
280031	Dyes, lakes, and toners	.....	(X)	13.2		
970099	All other materials and components, parts, containers, and supplies	.....	(X)	71.7		
971000	Materials, containers, and supplies, n.s.k.[2]	.....	(X)	15.6		
	INDUSTRY 2283, WOOL YARN MILLS					
	Materials, containers, and supplies	.....	(X)	107.6	(X)	130.5
229931	Raw wool, mohair, and other animal fiber (scoured weight)	Million lb	**16.0	27.2	58.8	40.2
229933	Wool tops		7.4	21.4	23.8	27.7
282305	Rayon and acetate staple and tow		(D)	(D)	1.9	.8
282425	Polyester staple and tow		(D)	(D)	9.3	5.5
282428	All other manmade fiber staple and tow, except glass		12.4	8.7	21.1	14.0
010014	All other fibers (silk, jute, reused wool, waste, etc.)		(D)	(D)	(D)	(D)
228101	Purchased spun yarn, all fibers, including transfers from other plants of the same company	Million lb	(D)	(D)	(D)	(D)
280031	Dyes, lakes, and toners	.....	(X)	(D)	(X)	3.3
970099	All other materials and components, parts, containers, and supplies	.....	(X)	11.9	(X)	16.5
971000	Materials, containers, and supplies, n.s.k.[2]	.....	(X)	9.7	(X)	11.4
	INDUSTRY 2284, THREAD MILLS					
2284--	Materials, containers, and supplies	.....	(X)	320.7	(X)	188.7
013101	Raw cotton	1,000 bales	69.1	32.5	68.2	15.3
282305	Rayon and acetate staple and tow	Million lb	28.6	23.7		
282413	Nylon staple and tow					
282425	Polyester staple and tow		11.6	11.4	(4)	(4)
282426	Acrylic staple and tow		9.8	5.7		
282411	Nylon filament yarn		16.9	22.8		
282423	Polyester filament yarn		14.6	21.2	18.5	27.6
282407	All other manmade filament yarn		**.3	.6		
228101	Purchased spun yarn, all fibers, including transfers from other plants of the same company	Million lb	63.9	138.9	77.9	93.3
280031	Dyes, lakes, and toners	.....	(X)	7.4	(X)	11.1
970099	All other materials and components, parts, containers, and supplies	.....	(X)	52.8	(X)	[2]36.6
971000	Materials, containers, and supplies, n.s.k.[2]	.....	(X)	3.7	(X)	4.8

(D) Withheld to avoid disclosing operations of individual companies. n.s.k. Not specified by kind. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated, If 30 percent or more is estimated, figure is replaced by (S).

[2]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[3]1972 data are not completely comparable because of 1977 revisions to product class structure for industry 2282. For further explanation, see text.

[4]For 1972, material codes 282305, 282413, 282425, and 282426 were included with material code 970099.

Miscellaneous Textile Goods

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DESCRIPTION OF INDUSTRIES

MISCELLANEOUS TEXTILE GOODS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2291	Felt Goods, Except Woven Felts and Hats
2292	Lace Goods
2293	Paddings and Upholstery Filling
2294	Processed Textile Waste
2295	Coated Fabrics, Not Rubberized
2296	Tire Cord and Fabric
2297	Nonwoven Fabrics
2298	Cordage and Twine
2299	Textile Goods, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2291, FELT GOODS, EXCEPT WOVEN FELTS AND HATS

This industry comprises establishments primarily engaged in the manufacture of pressed felt, regardless of fiber, by means of heat, moisture, and pressure; and those making punched felt for rugs, cushions, and other products from hair, jute, wool, or other fibers by the needle loom process. Establishments primarily engaged in the manufacture of woven wool felts and wool hair cloth are classified in industry 2231, those manufacturing felt hats in industry group 235, and those manufacturing needle punch carpeting in industry 2279.

The total value of shipments for establishments classified in the Felt Goods, Except Woven Felts and Hats industry amounted to $198 million in 1977, an increase of 35 percent from 1972. The value of shipments of products classified as primary to the industry was $186 million, an increase of 42 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $103 million in 1977, was 27 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 4.3 thousand employees, a decrease of 14 percent from 1972. The leading States in employment were New York, South Carolina, California, and New Hampshire, accounting for approximately 60 percent of the industry's 1977 employment. Data for South Carolina and New Hampshire have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2292, LACE GOODS

This industry comprises establishments primarily engaged in the manufacture of lace machine products, and those primarily engaged in dyeing and finishing lace goods. Establishments primarily engaged in the manufacture of Schiffli machine embroideries are classified in industry 2397. Establishments primarily engaged in the manufacture of knitted lace and netting are classified in industry 2258.

The total value of shipments for establishments classified in the Lace Goods industry amounted to $46 million in 1977, a decrease of 2 percent from 1972. The value of shipments of products classified as primary to the industry was $40 million, the same as in 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $28 million in 1977, was 3 percent below value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 2.2 thousand employees, a decrease of 24 percent from 1972. The leading States in employment

were Rhode Island and Pennsylvania, accounting for approximately 45 percent of the industry's 1977 employment. Data for Pennsylvania have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 11 percent of total value of shipments.

INDUSTRY 2293, PADDINGS AND UPHOLSTERY FILLING

This industry comprises establishments primarily engaged in the manufacture of batting, padding, wadding, and filling for upholstery, pillows, quilts, and apparel, from curled hair, cotton mill waste, moss, hemp tow, flax tow, kapok, and related materials. Establishments primarily engaged in the manufacture of wood excelsior pads and wrappers are classified in industry 2429.

The total value of shipments for establishments classified in the Paddings and Upholstery Filling industry amounted to $252 million in 1977, an increase of 87 percent from 1972. The value of shipments of products classified as primary to the industry was $261 million, an increase of 69 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $125 million in 1977, was 92 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 5.2 thousand employees, an increase of 18 percent from 1972. The leading States in employment were Ohio, North Carolina, California, and Kentucky, accounting for approximately 50 percent of the industry's 1977 employment. Data for Kentucky have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 7 percent of total value of shipments.

INDUSTRY 2294, PROCESSED TEXTILE WASTE

This industry comprises establishments primarily engaged in processing textile mill waste for spinning, padding, batting, or other uses; in recovering textile fibers from clippings and rags; in cutting flock from waste, recovered fibers, or new fiber stock; and in manufacturing oakum and twisted jute packing. Establishments primarily engaged in cleaning and sorting wiping rags or waste are classified in industry 5093.

The total value of shipments for establishments classified in the Processed Textile Waste industry amounted to $178 million in 1977, an increase of 33 percent from 1972. The value of shipments of products classified as primary to the industry was $164 million, an increase of 32 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $62 million in 1977, was 22 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 3.7 thousand employees, an increase of 3 percent from 1972. The leading States in employment were South Carolina and Alabama, accounting for approximately 35 percent of the industry's 1977 employment. Data for Alabama have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 11 percent of total value of shipments.

INDUSTRY 2295, COATED FABRICS, NOT RUBBERIZED

This industry comprises establishments primarily engaged in the manufacture of coated and impregnated textiles, and in the special finishing of textiles, such as varnishing and waxing. Establishments primarily engaged in rubberizing purchased fabrics are classified in industry 3069, and those primarily engaged in dyeing and finishing textiles in industry group 226.

The total value of shipments for establishments classified in the Coated Fabrics, Not Rubberized industry amounted to $1,059 million in 1977, an increase of 22 percent from 1972. The value of shipments of products classified as primary to the industry was $987 million, an increase of 22 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $413 million in 1977, was 8 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 13.6 thousand employees, a decrease of 24 percent from 1972. The leading States in employment were Ohio, Massachusetts, New Jersey, and Michigan, accounting for approximately 55 percent of the industry's 1977 employment. Data for Michigan have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2296, TIRE CORD AND FABRIC

This industry comprises establishments primarily engaged in the manufacture of cord and fabric for use in reinforcing rubber tires, industrial belting, fuel cells, and for similar uses.

The total value of shipments for establishments classified in the Tire Cord and Fabric industry amounted to $1,013 million in 1977, an increase of 48 percent from 1972. The value of shipments of products classified as primary to the industry was $920 million, an increase of 48 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $242 million in 1977, was 66 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 9.6 thousand employees, a decrease of 4 percent from 1972. The leading States in employment were Georgia and North Carolina, accounting for approximately 60 percent of the industry's 1977 employment. Data for North Carolina have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The 1977 census obtained data on shipments of tire cord and fabric only at product class level. Detailed figures on the production of tire cord and fabric are reported quarterly in the Census Bureau's Current Industrial Reports (CIR) MQ-22T, Broadwoven Fabrics (Gray). Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with up to 20 employees were excluded from the mail portion of the census. There were no establishments for which administrative records were used.

INDUSTRY 2297, NONWOVEN FABRICS

This industry comprises establishments primarily engaged in the manufacture of nonwoven fabrics (by bonding and/or interlocking of fibers) by mechanical, chemical, thermal, or solvent means, or by combinations thereof. Establishments primarily engaged in producing fabrics by the wool felting process are classified in other industries in this major group.

The total value of shipments for establishments classified in the Nonwoven Fabrics industry amounted to $864 million in 1977, an increase of 118 percent from 1972. The value of shipments of products classified as primary to the industry was $1,095 million, an increase of 111 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $386 million in 1977, was 101 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 13.0 thousand employees, an increase of 20 percent from 1972. The leading States in employment were South Carolina, Massachusetts, Illinois, and North Carolina, accounting for approximately 45 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2298, CORDAGE AND TWINE

This industry comprises establishments primarily engaged in the manufacture of rope, cable, cordage, twine, and related products from abaca (Manila), sisal, henequen, hemp, cotton, paper, jute, flax, manmade fibers including glass, and other fibers.

The total value of shipments for establishments classified in the Cordage and Twine industry amounted to $332 million in 1977, an increase of 74 percent from 1972. The value of shipments of products classified as primary to the industry was $292 million, an increase of 67 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $174 million in 1977, was 81 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 9.5 thousand employees, an increase of 6 percent from 1972. The leading States in employment were Georgia, Alabama, Pennsylvania, and Iowa, accounting for approximately 40 percent of the industry's 1977 employment. Data for Alabama and Iowa have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

INDUSTRY 2299, TEXTILE GOODS, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of linen goods, jute goods, except felt, and other textile goods, not elsewhere classified. Establishments primarily engaged in processing textile fibers to prepare them for

spinning, such as wool scouring and carbonizing and combing and converting tow to top, are also classified here. Establishments primarily engaged in the manufacture of woven felts are classified in industry 2231, nonwoven felts in industry 2291, nonwoven textiles in industry 2297, and cordage and twine in industry 2298.

The total value of shipments for establishments classified in the Textile Goods, N.E.C. industry amounted to $231 million in 1977, an increase of 9 percent from 1972. The value of shipments of products classified as primary to the industry was $281 million, an increase of 28 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $109 million in 1977, was 1 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 6.7 thousand employees, a decrease of 19 percent from 1972. The leading States in employment were New York, New Jersey, South Carolina, and Massachusetts, accounting for approximately 55 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 36 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2291, FELT GOODS, EXCEPT WOVEN FELTS AND HATS																
1977 Census	37	46	27	4.3	50.7	3.3	6.7	33.1	103.0	96.8	197.7	5.7	(NA)	36.3	82	82
1976 ASM	(NA)	(NA)	(NA)	3.9	42.0	2.9	6.1	27.1	89.1	72.1	158.0	[6]6.3	78.4	33.0	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	3.6	37.9	2.7	5.5	22.6	78.5	65.2	145.4	5.4	78.1	31.0	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	3.6	36.0	2.7	5.9	22.5	78.1	59.8	136.0	5.6	61.0	33.9	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	4.8	42.5	3.8	8.2	29.7	90.6	73.1	161.0	4.7	69.0	33.5	(NA)	(NA)
1972 Census	38	47	30	5.0	38.3	4.0	8.5	28.0	80.5	65.4	146.5	2.8	67.5	25.7	77	82
1971 ASM	(NA)	(NA)	(NA)	3.9	29.6	3.0	6.1	20.3	62.2	51.8	114.8	2.9	55.2	19.7	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	4.0	29.1	3.2	6.6	20.6	59.3	50.8	109.5	4.1	54.0	21.5	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	5.4	40.0	4.2	9.7	26.1	82.4	93.8	176.1	5.8	62.4	26.9	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	5.1	33.9	3.9	8.4	22.9	79.4	69.6	146.6	2.8	58.5	22.8	(NA)	(NA)
1967 Census	33	40	28	4.5	26.3	3.6	7.7	19.1	63.6	69.3	133.6	3.2	53.9	17.0	76	72
1966 ASM	(NA)	(NA)	(NA)	4.8	27.7	3.6	8.0	19.4	61.8	84.9	144.9	2.6	(NA)	19.1	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	5.4	31.3	4.3	9.0	22.4	72.4	93.7	165.5	2.6	(NA)	23.2	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	5.1	26.9	4.1	9.2	21.5	62.0	83.8	144.4	2.6	46.7	21.0	(NA)	(NA)
1963 Census	28	36	30	5.0	27.0	4.0	8.7	20.0	58.6	76.0	134.0	1.8	43.4	19.9	86	88
INDUSTRY 2292, LACE GOODS																
1977 Census	68	71	24	2.2	17.9	1.9	3.6	14.0	27.7	18.5	45.9	1.0	(NA)	12.6	98	98
1976 ASM[5]	(NA)	(NA)	(NA)	2.5	16.0	2.2	3.8	11.9	22.1	12.6	33.8	2.3	21.1	8.4	(NA)	(NA)
1975 ASM[5]	(NA)	(NA)	(NA)	2.1	12.9	1.8	3.2	8.9	19.3	8.3	27.9	0.3	18.8	5.6	(NA)	(NA)
1974 ASM[5]	(NA)	(NA)	(NA)	2.3	14.4	2.0	3.7	10.4	21.4	7.6	28.6	0.1	22.4	6.5	(NA)	(NA)
1973 ASM[5]	(NA)	(NA)	(NA)	2.6	15.9	2.3	4.3	12.4	24.9	18.0	43.8	0.3	21.2	8.1	(NA)	(NA)
1972 Census	99	105	29	2.9	17.3	2.5	4.7	13.5	29.4	18.1	47.1	1.7	21.1	7.7	93	89
1971 ASM[5]	(NA)	(NA)	(NA)	4.0	21.9	3.5	6.0	16.2	35.6	22.4	56.4	0.8	24.6	12.4	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	4.3	24.4	3.8	6.7	18.9	39.7	21.4	62.0	0.5	28.1	10.6	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	4.2	21.6	3.7	6.9	16.6	42.3	21.8	63.6	[6]0.6	36.5	11.9	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	5.3	26.9	4.7	9.3	21.5	53.6	38.0	91.3	1.9	41.2	16.0	(NA)	(NA)
1967 Census	134	142	48	5.0	23.7	4.4	8.4	19.5	36.6	28.0	65.7	2.0	40.5	11.5	99	94
1966 ASM	(NA)	(NA)	(NA)	5.2	24.0	4.8	9.0	20.5	27.0	27.6	52.6	[6]1.5	(NA)	12.6	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	4.5	19.9	4.0	7.5	15.7	33.5	22.8	54.9	[6]0.5	(NA)	11.0	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	4.9	20.8	4.3	8.1	16.6	36.5	23.6	58.2	[6]0.8	29.4	10.4	(NA)	(NA)
1963 Census	145	152	51	4.9	19.7	4.3	8.1	16.0	31.5	22.0	53.0	0.5	29.3	8.2	98	91
INDUSTRY 2293, PADDINGS AND UPHOLSTERY FILLING																
1977 Census	113	120	56	5.2	52.9	4.1	8.4	36.4	124.5	128.3	251.8	5.8	(NA)	19.6	92	84
1976 ASM	(NA)	(NA)	(NA)	5.2	49.4	4.1	8.6	33.7	100.4	109.2	210.0	4.8	66.6	17.4	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	4.5	39.9	3.7	6.9	26.0	72.6	83.2	156.1	7.1	59.4	14.5	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	5.2	40.9	4.2	7.7	27.0	72.2	78.7	150.8	4.6	53.3	16.5	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	4.6	38.3	3.8	7.8	26.5	81.3	94.1	175.3	3.1	51.4	17.9	(NA)	(NA)
1972 Census	119	132	59	4.4	34.2	3.6	7.2	23.1	64.5	70.8	134.6	2.9	49.5	11.6	86	73
1971 ASM	(NA)	(NA)	(NA)	6.2	37.4	5.4	10.7	28.3	73.7	87.4	161.5	7.6	56.7	15.6	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	6.8	41.1	5.7	11.1	30.6	79.3	93.6	173.9	5.0	61.5	15.3	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	7.2	45.5	6.0	13.0	33.2	89.4	98.0	186.4	5.0	67.6	18.2	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	7.5	45.3	6.2	12.5	32.5	111.6	107.7	219.1	[6]5.5	65.3	19.2	(NA)	(NA)
1967 Census	133	151	71	6.5	36.0	5.3	10.7	26.0	78.0	89.9	168.1	3.4	58.3	17.4	86	82
1966 ASM	(NA)	(NA)	(NA)	8.6	43.9	6.6	12.4	31.9	96.5	109.2	204.6	[6]5.2	(NA)	20.6	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	7.1	37.3	5.9	12.2	27.4	82.1	100.9	182.2	[6]3.2	(NA)	16.2	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	6.2	31.9	5.1	11.0	23.3	61.0	84.0	145.0	1.7	53.1	14.6	(NA)	(NA)
1963 Census	168	183	73	6.9	33.7	5.7	12.0	25.2	65.6	91.1	156.5	1.9	53.1	16.5	84	81
INDUSTRY 2294, PROCESSED TEXTILE WASTE																
1977 Census	95	99	39	3.7	31.2	3.1	6.3	23.1	61.7	117.1	178.4	5.8	(NA)	27.5	98	95
1976 ASM[5]	(NA)	(NA)	(NA)	3.8	30.6	3.1	6.4	21.3	51.2	118.7	166.2	3.7	40.7	29.7	(NA)	(NA)
1975 ASM[5]	(NA)	(NA)	(NA)	3.2	23.8	2.6	5.4	15.2	33.4	99.1	136.9	1.2	35.8	22.9	(NA)	(NA)
1974 ASM[5]	(NA)	(NA)	(NA)	4.0	28.5	3.4	7.0	20.1	62.6	162.0	215.1	4.2	36.6	27.8	(NA)	(NA)
1973 ASM[5]	(NA)	(NA)	(NA)	3.4	22.5	3.0	6.3	16.0	56.1	90.0	146.3	1.9	31.7	13.4	(NA)	(NA)
1972 Census	102	106	37	3.6	22.2	3.1	6.7	16.9	50.9	83.6	133.8	3.2	38.7	13.9	100	92
1971 ASM[5]	(NA)	(NA)	(NA)	3.8	21.9	3.2	6.6	16.2	57.0	69.0	128.6	2.8	30.0	17.4	(NA)	(NA)
1970 ASM[5]	(NA)	(NA)	(NA)	3.7	21.1	3.1	6.6	15.4	57.2	55.5	110.7	3.6	29.5	19.2	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	5.3	25.0	4.5	9.5	19.3	58.5	70.4	127.2	5.2	(S)	17.9	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	5.0	23.4	4.3	9.1	17.8	42.2	58.6	100.8	1.6	26.4	15.7	(NA)	(NA)
1967 Census	132	141	60	4.5	20.7	3.9	8.0	15.4	34.5	54.8	91.5	1.6	22.1	14.4	96	92
1966 ASM	(NA)	(NA)	(NA)	4.7	20.4	4.0	8.3	15.4	48.1	77.8	118.7	[6]2.3	(NA)	27.1	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	5.3	22.1	4.6	9.7	16.7	43.1	82.4	122.6	[6]2.2	(NA)	21.4	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	4.1	17.7	3.4	7.2	12.6	36.7	56.5	92.4	1.7	24.2	14.6	(NA)	(NA)
1963 Census	137	141	59	4.2	17.8	3.6	7.6	12.9	31.0	57.9	87.5	1.2	23.1	14.9	95	86

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2295, COATED FABRICS, NOT RUBBERIZED																
1977 Census--	175	191	109	13.6	182.3	9.9	20.9	117.1	413.1	650.5	1 059.0	26.0	(NA)	190.0	87	89
1976 ASM----	(NA)	(NA)	(NA)	17.1	207.6	12.5	25.5	133.2	484.3	705.1	1 182.5	25.8	428.0	217.9	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	15.9	181.5	11.5	23.1	112.0	383.0	607.2	986.1	34.5	401.7	199.5	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	18.6	190.5	13.4	26.1	120.8	422.5	649.7	1 056.4	51.9	343.3	235.6	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	18.5	182.8	13.6	28.6	118.1	411.2	559.4	975.9	30.6	297.1	169.6	(NA)	(NA)
1972 Census--	185	202	131	18.0	167.8	13.1	28.2	109.3	382.4	491.7	865.8	29.6	288.9	145.7	88	87
1971 ASM----	(NA)	(NA)	(NA)	16.0	139.5	11.7	25.0	89.0	303.1	396.0	689.1	16.0	242.9	119.8	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	16.4	130.9	11.9	25.2	83.3	261.6	383.2	648.2	18.4	232.5	111.1	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	16.0	123.8	11.1	24.1	75.9	246.6	372.7	623.0	19.0	200.4	113.8	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	16.5	122.1	11.7	25.3	77.9	264.4	369.7	631.5	13.1	178.3	104.7	(NA)	(NA)
1967 Census--	157	178	115	17.5	121.3	12.7	26.9	78.1	255.2	368.5	616.2	17.0	177.7	109.0	87	89
1966 ASM----	(NA)	(NA)	(NA)	17.7	121.3	13.1	28.5	78.4	234.1	360.5	595.2	28.5	(NA)	108.2	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	16.7	109.4	12.3	25.9	70.8	221.0	322.0	538.1	23.2	(NA)	88.8	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	14.4	95.9	10.5	22.8	62.1	177.9	269.5	443.4	[6]13.0	130.7	77.0	(NA)	(NA)
1963 Census--	149	162	87	13.7	89.2	10.2	22.1	58.8	179.3	258.0	435.7	12.4	120.7	69.0	86	84
INDUSTRY 2296, TIRE CORD AND FABRIC																
1977 Census--	8	20	20	9.6	94.7	8.5	16.2	78.1	242.1	779.7	1 013.2	7.0	(NA)	126.7	90	99
1976 ASM----	(NA)	(NA)	(NA)	10.1	85.5	8.9	17.1	70.8	201.6	652.8	835.7	6.0	277.7	134.0	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	10.0	74.7	8.9	16.2	61.9	168.4	580.9	748.9	7.7	277.0	102.2	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	11.4	87.3	10.3	20.7	75.2	210.8	599.0	805.0	8.8	238.7	102.1	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	10.3	76.1	9.3	19.4	65.8	186.5	543.6	717.6	18.3	228.2	89.0	(NA)	(NA)
1972 Census--	9	18	18	10.0	70.0	9.1	19.4	60.6	145.8	540.1	685.1	8.8	198.7	67.3	91	97
1971 ASM----	(NA)	(NA)	(NA)	9.7	61.7	8.8	18.1	53.3	129.6	475.1	607.0	7.5	194.2	62.5	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	10.7	61.5	9.7	19.2	52.9	125.4	470.8	597.1	26.6	207.1	69.1	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	11.2	64.5	10.3	21.6	56.1	123.8	529.0	641.2	25.8	183.4	79.5	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	11.1	59.4	10.2	21.6	51.4	113.6	459.6	565.7	37.4	186.6	61.9	(NA)	(NA)
1967 Census--	12	20	19	10.1	48.7	9.2	18.4	41.7	91.5	354.3	444.1	15.2	126.7	49.2	84	90
1966 ASM----	(NA)	(NA)	(NA)	10.7	53.7	9.8	21.4	47.2	107.3	395.3	504.7	11.2	(NA)	51.3	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	10.0	46.8	9.1	19.5	40.6	95.2	370.3	464.6	7.3	(NA)	47.2	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	9.2	40.0	8.4	17.5	34.3	87.4	351.4	434.7	4.7	97.3	42.4	(NA)	(NA)
1963 Census--	12	20	19	9.2	35.1	8.3	16.4	30.0	72.3	303.6	375.7	3.0	94.0	37.2	87	91
INDUSTRY 2297, NONWOVEN FABRICS[3]																
1977 Census--	81	100	74	13.0	139.8	10.4	21.1	100.2	386.0	489.8	864.4	41.1	(NA)	121.5	86	66
1976 ASM----	(NA)	(NA)	(NA)	11.1	114.3	8.6	17.9	78.9	314.6	364.6	670.4	41.0	298.1	90.0	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	10.8	104.8	8.4	17.6	70.4	249.6	325.2	565.3	33.9	261.6	77.9	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	11.2	95.6	8.9	18.8	67.2	249.0	301.8	541.8	24.7	223.4	78.2	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	10.7	85.6	8.7	18.4	62.4	199.7	222.7	418.9	22.0	204.3	55.8	(NA)	(NA)
1972 Census--	68	82	65	10.8	80.6	8.8	18.7	57.7	191.8	210.1	397.4	15.0	186.9	50.3	84	61
INDUSTRY 2298, CORDAGE AND TWINE																
1977 Census--	151	171	84	9.5	79.5	7.9	14.2	53.7	173.8	162.9	332.2	6.5	(NA)	79.4	90	95
1976 ASM[5]---	(NA)	(NA)	(NA)	8.7	74.4	7.3	12.0	49.2	146.5	159.9	300.1	12.7	114.0	77.7	(NA)	(NA)
1975 ASM[5]---	(NA)	(NA)	(NA)	8.0	68.2	6.4	10.6	42.6	149.1	143.9	288.3	11.2	107.1	70.4	(NA)	(NA)
1974 ASM[5]---	(NA)	(NA)	(NA)	9.2	72.9	7.6	12.8	47.3	160.4	137.9	291.5	7.9	99.9	68.9	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	9.1	58.3	7.8	15.0	43.5	125.6	98.3	221.2	5.4	95.9	48.5	(NA)	(NA)
1972 Census--	134	156	81	9.0	55.4	7.6	15.2	40.9	96.3	92.1	191.0	4.9	89.8	42.7	86	92
1971 ASM----	(NA)	(NA)	(NA)	6.8	41.8	5.7	11.1	29.6	79.1	66.1	145.6	3.6	67.3	34.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	7.3	41.6	6.1	11.8	29.6	76.1	67.1	142.3	3.2	65.3	35.1	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	9.2	50.8	7.8	15.7	37.4	106.0	91.5	193.5	6.2	73.1	46.8	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	9.2	47.1	7.8	15.0	35.0	89.8	88.3	181.1	5.5	68.9	39.1	(NA)	(NA)
1967 Census--	147	169	83	10.2	48.5	8.7	17.2	36.3	95.4	95.3	188.8	4.4	69.9	42.1	86	88
1966 ASM----	(NA)	(NA)	(NA)	9.1	38.3	7.9	15.6	28.9	59.2	93.4	164.7	3.9	(NA)	36.7	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	9.2	38.7	7.7	15.6	27.5	76.7	96.5	170.8	5.1	(NA)	41.9	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	9.4	38.0	8.0	15.9	28.0	70.3	93.1	163.5	2.8	67.6	37.3	(NA)	(NA)
1963 Census--	148	167	76	8.9	34.5	7.7	14.8	26.6	57.6	91.4	149.3	[6]2.7	65.4	38.9	90	87

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
	INDUSTRY 2299, TEXTILE GOODS, N.E.C.[3]															
1977 Census	432	436	90	6.7	56.6	5.7	11.8	41.8	109.2	124.2	231.1	13.0	(NA)	27.8	96	68
1976 ASM[5]	(NA)	(NA)	(NA)	8.8	72.6	7.9	15.3	54.3	116.0	102.3	220.3	14.4	126.2	19.1	(NA)	(NA)
1975 ASM[5]	(NA)	(NA)	(NA)	6.0	52.5	5.6	10.0	39.4	73.3	88.7	162.6	13.9	112.6	17.9	(NA)	(NA)
1974 ASM[5]	(NA)	(NA)	(NA)	7.3	53.3	6.5	12.4	40.7	82.9	106.8	191.8	39.5	135.2	18.1	(NA)	(NA)
1973 ASM[5]	(NA)	(NA)	(NA)	9.0	61.5	7.3	15.1	43.1	110.3	136.1	245.7	21.4	139.5	28.8	(NA)	(NA)
1972 Census	335	345	79	8.3	53.9	6.8	14.3	37.8	107.7	105.1	211.8	13.4	133.9	28.9	97	77

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2291, FELT GOODS, EXCEPT WOVEN FELTS AND HATS											
1977 Census--	11 722	(NA)	75	2 049	4.92	48	74	(NA)	23 796	49	15.29
1976 ASM----	10 769	20 102	74	2 103	4.44	45	72	49	22 846	47	14.60
1975 ASM----	10 527	21 694	75	2 037	4.10	44	70	53	21 805	48	14.27
1974 ASM----	10 000	16 944	75	2 185	3.81	43	70	44	21 694	46	13.23
1973 ASM----	8 854	14 375	79	2 157	3.62	45	71	42	18 875	46	11.04
1972 Census--	7 660	13 500	80	2 125	3.29	44	70	46	16 100	47	9.47
1971 ASM----	7 589	14 153	76	2 033	3.32	45	70	48	15 948	47	10.19
1970 ASM----	7 275	13 500	80	2 062	3.12	46	72	49	14 825	49	8.86
1969 ASM----	7 407	11 555	77	2 309	2.69	53	75	35	15 259	48	8.49
1968 ASM----	6 647	11 470	76	2 153	2.72	47	70	39	15 568	42	9.45
1967 Census--	5 844	11 977	80	2 138	2.48	51	71	40	14 133	41	8.25
1966 ASM----	5 770	(NA)	75	2 222	2.42	58	77	(NA)	12 875	44	7.72
1965 ASM----	5 796	(NA)	79	2 093	2.48	56	75	(NA)	13 407	43	8.04
1964 ASM----	5 666	9 156	80	2 243	2.33	58	78	32	12 156	46	6.73
1963 Census--	5 400	8 680	80	2 175	2.29	56	76	32	11 720	46	6.73
INDUSTRY 2292, LACE GOODS											
1977 Census--	8 119	(NA)	85	1 896	3.90	40	79	(NA)	12 519	64	7.73
1976 ASM----	6 400	8 440	88	1 727	3.13	37	84	62	8 840	72	5.81
1975 ASM----	6 142	8 952	85	1 777	2.78	29	75	67	9 190	66	6.03
1974 ASM----	6 260	9 739	86	1 850	2.81	26	76	78	9 304	67	5.78
1973 ASM----	6 115	8 153	88	1 869	2.88	41	77	48	9 576	63	5.79
1972 Census--	5 965	7 275	86	1 880	2.87	38	75	44	10 137	58	6.25
1971 ASM----	5 475	6 150	87	1 714	2.70	39	78	43	8 900	61	5.83
1970 ASM----	5 674	6 534	88	1 763	2.82	34	73	45	9 232	61	5.92
1969 ASM----	5 142	8 690	88	1 864	2.40	34	68	57	10 071	51	6.13
1968 ASM----	5 075	7 773	88	1 978	2.31	41	71	45	10 113	50	5.76
1967 Census--	4 740	8 100	88	1 909	2.32	42	78	61	7 320	64	4.35
1966 ASM----	4 615	(NA)	92	1 875	2.27	52	98	(NA)	5 192	88	3.00
1965 ASM----	4 422	(NA)	88	1 875	2.09	41	77	(NA)	7 444	59	4.46
1964 ASM----	4 244	6 000	87	1 883	2.04	40	76	50	7 448	56	4.50
1963 Census--	4 020	5 979	87	1 883	1.97	41	78	55	6 428	62	3.88
INDUSTRY 2293, PADDINGS AND UPHOLSTERY FILLING											
1977 Census--	10 220	(NA)	78	2 058	4.34	50	71	(NA)	24 076	42	14.86
1976 ASM----	9 500	12 807	78	2 097	3.91	52	75	31	19 307	49	11.67
1975 ASM----	8 866	13 200	82	1 864	3.76	53	78	38	16 133	54	10.52
1974 ASM----	7 865	10 250	80	1 833	3.50	52	79	35	13 884	56	9.37
1973 ASM----	8 326	11 173	82	2 052	3.39	53	75	29	17 673	47	10.42
1972 Census--	7 772	11 250	81	2 000	3.20	52	78	36	14 659	53	8.95
1971 ASM----	6 032	9 145	87	1 981	2.64	54	77	35	11 887	50	6.88
1970 ASM----	6 044	9 044	83	1 947	2.75	53	77	35	11 661	51	7.14
1969 ASM----	6 319	9 388	83	2 166	2.55	52	76	36	12 416	50	6.87
1968 ASM----	6 040	8 706	82	2 016	2.60	49	69	29	14 880	40	8.92
1967 Census--	5 538	8 969	81	2 018	2.42	53	74	34	12 000	46	7.28
1966 ASM----	5 104	(NA)	76	1 878	2.57	53	74	(NA)	11 220	45	7.78
1965 ASM----	5 253	(NA)	83	2 067	2.24	55	75	(NA)	11 563	45	6.72
1964 ASM----	5 145	8 564	82	2 156	2.11	57	79	36	9 838	52	5.54
1963 Census--	4 884	7 695	82	2 105	2.10	58	79	33	9 507	51	5.46
INDUSTRY 2294, PROCESSED TEXTILE WASTE											
1977 Census--	8 440	(NA)	84	2 012	3.66	65	83	(NA)	16 692	50	9.76
1976 ASM----	8 052	10 710	81	2 064	3.32	71	89	24	13 473	59	8.00
1975 ASM----	7 437	11 187	81	2 076	2.81	72	89	26	10 437	71	6.18
1974 ASM----	7 125	9 150	85	2 058	2.87	75	88	17	15 650	45	8.94
1973 ASM----	6 617	9 323	88	2 100	2.53	61	76	21	16 500	40	8.90
1972 Census--	6 166	10 750	86	2 161	2.52	62	79	28	14 138	43	7.59
1971 ASM----	5 763	7 894	84	2 062	2.45	53	70	23	15 000	38	8.63
1970 ASM----	5 702	7 972	83	2 129	2.33	50	69	26	15 459	36	8.66
1969 ASM----	4 716	(S)	84	2 111	2.03	55	75	(S)	11 037	42	6.15
1968 ASM----	4 680	5 280	86	2 116	1.95	58	81	26	8 440	55	4.63
1967 Census--	4 600	4 911	86	2 051	1.92	59	82	24	7 666	60	4.31
1966 ASM----	4 340	(NA)	85	2 075	1.85	65	82	(NA)	10 234	42	5.79
1965 ASM----	4 169	(NA)	86	2 108	1.72	67	85	(NA)	8 132	51	4.44
1964 ASM----	4 317	5 902	82	2 117	1.75	61	80	26	8 951	48	5.09
1963 Census--	4 238	5 500	85	2 111	1.69	66	86	26	7 380	57	4.07

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2295, COATED FABRICS, NOT RUBBERIZED											
1977 Census--	13 376	(NA)	72	2 107	5.59	61	78	(NA)	30 304	44	19.73
1976 ASM----	12 140	25 029	73	2 040	5.22	59	77	36	28 321	42	18.99
1975 ASM----	11 415	25 264	72	2 008	4.84	61	79	40	24 088	47	16.58
1974 ASM----	10 241	18 456	72	1 947	4.62	61	79	32	22 715	45	16.18
1973 ASM----	9 881	16 059	73	2 102	4.12	57	76	30	22 227	44	14.37
1972 Census--	9 322	16 050	72	2 152	3.87	56	76	33	21 244	43	13.56
1971 ASM----	8 718	15 181	73	2 136	3.56	57	77	35	18 943	46	12.12
1970 ASM----	7 981	14 176	72	2 117	3.30	59	79	35	15 951	50	10.38
1969 ASM----	7 737	12 525	69	2 171	3.14	59	79	32	15 412	50	10.23
1968 ASM----	7 400	10 806	70	2 162	3.07	58	77	28	16 024	46	10.45
1967 Census--	6 931	10 154	72	2 118	2.90	59	79	28	14 582	47	9.48
1966 ASM----	6 853	(NA)	74	2 175	2.75	60	80	(NA)	13 225	51	8.21
1965 ASM----	6 550	(NA)	73	2 105	2.73	59	80	(NA)	13 233	49	8.53
1964 ASM----	6 659	9 076	72	2 171	2.72	60	82	29	12 354	53	7.80
1963 Census--	6 510	8 810	74	2 166	2.66	59	79	27	13 087	49	8.11
INDUSTRY 2296, TIRE CORD AND FABRIC											
1977 Census--	9 813	(NA)	87	1 919	4.81	76	86	(NA)	25 100	39	14.91
1976 ASM----	8 465	27 495	88	1 921	4.14	78	88	33	19 960	42	11.78
1975 ASM----	7 470	27 700	89	1 820	3.82	77	87	36	16 840	44	10.39
1974 ASM----	7 657	20 938	90	2 009	3.63	74	85	29	18 491	41	10.18
1973 ASM----	7 388	22 155	90	2 086	3.39	75	86	31	18 106	40	9.61
1972 Census--	7 000	19 870	91	2 131	3.12	78	89	29	14 580	48	7.51
1971 ASM----	6 360	20 020	90	2 056	2.94	78	88	31	13 360	47	7.16
1970 ASM----	5 747	19 355	90	1 979	2.75	78	89	34	11 719	49	6.53
1969 ASM----	5 758	16 375	91	2 097	2.59	82	92	28	11 053	52	5.73
1968 ASM----	5 351	16 810	91	2 117	2.37	81	91	32	10 234	52	5.25
1967 Census--	4 821	12 544	91	2 000	2.26	79	90	28	9 059	53	4.97
1966 ASM----	5 018	(NA)	91	2 183	2.20	78	88	(NA)	10 028	50	5.01
1965 ASM----	4 680	(NA)	91	2 142	2.08	79	89	(NA)	9 520	49	4.88
1964 ASM----	4 347	10 576	91	2 083	1.96	80	90	22	9 500	45	4.99
1963 Census--	3 815	10 217	90	1 975	1.82	80	90	25	7 858	48	4.40
INDUSTRY 2297, NONWOVEN FABRICS											
1977 Census--	10 792	(NA)	80	2 029	4.74	56	72	(NA)	29 795	36	18.27
1976 ASM----	10 297	26 855	77	2 081	4.40	54	71	44	28 342	36	17.57
1975 ASM----	9 703	24 222	77	2 095	4.00	57	76	46	23 111	41	14.18
1974 ASM----	8 535	19 946	79	2 112	3.57	55	73	41	22 232	38	13.24
1973 ASM----	8 000	19 093	81	2 114	3.39	53	73	48	18 663	42	10.85
1972 Census--	7 462	17 305	81	2 125	3.08	52	73	47	17 759	42	10.25
INDUSTRY 2298, CORDAGE AND TWINE											
1977 Census--	8 342	(NA)	82	1 796	3.78	49	72	(NA)	18 242	45	12.26
1976 ASM----	8 551	13 103	83	1 643	4.10	53	78	37	16 839	50	12.20
1975 ASM----	8 525	13 387	80	1 656	4.01	49	73	37	18 637	45	14.06
1974 ASM----	7 923	10 858	82	1 684	3.69	47	72	34	17 434	45	12.53
1973 ASM----	6 406	10 538	85	1 923	2.90	44	70	43	13 802	46	8.37
1972 Census--	6 155	9 977	84	2 000	2.69	48	77	47	10 700	57	6.33
1971 ASM----	6 147	9 897	83	1 947	2.66	45	74	46	11 632	52	7.12
1970 ASM----	5 698	8 945	83	1 934	2.50	47	76	45	10 424	54	6.44
1969 ASM----	5 521	7 945	84	2 012	2.38	47	73	37	11 521	47	6.75
1968 ASM----	5 119	7 478	84	1 923	2.33	48	74	37	9 760	52	5.98
1967 Census--	4 754	6 852	85	1 977	2.11	50	76	37	9 352	50	5.54
1966 ASM----	4 208	(NA)	86	1 974	1.85	56	79	(NA)	6 505	64	3.79
1965 ASM----	4 206	(NA)	83	2 025	1.76	56	79	(NA)	8 336	50	4.91
1964 ASM----	4 042	7 191	85	1 987	1.76	56	80	41	7 478	54	4.42
1963 Census--	3 876	7 348	88	1 922	1.79	61	84	43	6 471	59	3.89

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2299, TEXTILE GOODS, N.E.C.										
1977 Census--	8 439	(NA)	85	2 064	3.55	53	78	(NA)	16 293	51	9.28
1976 ASM----	8 250	14 340	89	1 936	3.54	46	79	57	13 181	62	7.58
1975 ASM----	8 750	18 766	93	1 785	3.94	54	86	69	12 216	71	7.33
1974 ASM----	7 301	18 520	89	1 907	3.28	55	83	70	11 356	64	6.68
1973 ASM----	6 833	15 500	81	2 068	2.85	55	80	56	12 255	55	7.30
1972 Census--	6 493	16 132	81	2 102	2.64	49	75	63	12 975	50	7.53

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2291, FELT GOODS, EXCEPT WOVEN FELTS AND HATS														
United States	-	**46**	**27**	**4.3**	**50.7**	**3.3**	**6.7**	**33.1**	**103.0**	**96.8**	**197.7**	**5.7**	**5.0**	**80.5**
New England Division:														
New Hampshire	E1	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Connecticut	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:														
New York	-	4	4	1.0	13.0	0.7	1.3	7.3	25.5	14.5	39.8	0.9	1.1	19.1
East North Central Division:														
Wisconsin	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
North Carolina	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Carolina	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
California	-	4	2	0.5	5.6	0.3	0.7	3.3	10.5	14.2	(D)	(D)	(NA)	(D)
INDUSTRY 2292, LACE GOODS														
United States	**E1**	**71**	**24**	**2.2**	**17.9**	**1.9**	**3.6**	**14.0**	**27.7**	**18.5**	**45.9**	**1.0**	**2.9**	**29.4**
New England Division:														
Rhode Island	-	22	6	0.5	4.5	0.5	1.0	3.5	7.2	2.8	10.1	0.2	(NA)	(D)
Middle Atlantic Division:														
New York	E2	14	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	5.5
New Jersey	E2	16	5	0.3	2.3	0.3	0.5	1.8	3.8	1.9	5.7	0.1	(NA)	(D)
Pennsylvania	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.2
INDUSTRY 2293, PADDINGS AND UPHOLSTERY FILLING														
United States	-	**120**	**56**	**5.2**	**52.9**	**4.1**	**8.4**	**36.4**	**124.5**	**128.3**	**251.8**	**5.8**	**4.4**	**64.5**
New England Division:														
Massachusetts	-	6	3	0.3	2.7	0.2	0.4	2.0	6.3	3.5	9.8	(D)	0.3	3.8
Rhode Island	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:														
New York	E2	10	4	0.3	2.9	0.2	0.5	2.0	6.5	7.6	14.1	0.2	0.5	6.1
East North Central Division:														
Ohio	-	3	3	0.8	7.3	0.5	1.0	4.7	18.1	14.4	32.0	(D)	0.6	10.0
Indiana	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Illinois	E3	5	2	0.2	2.0	0.1	0.3	1.5	3.8	4.6	8.3	(D)	0.2	3.3
Michigan	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	4.2
South Atlantic Division:														
North Carolina	E1	10	7	0.7	6.6	0.5	1.1	4.8	14.8	16.5	31.2	0.9	0.4	5.4
East South Central Division:														
Kentucky	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Texas	-	6	2	0.3	2.5	0.2	0.5	1.7	4.1	9.2	13.3	0.1	(NA)	(D)
Pacific Division:														
California	-	23	12	0.6	6.1	0.5	0.9	3.9	14.5	15.3	29.7	0.6	0.4	5.7
INDUSTRY 2294, PROCESSED TEXTILE WASTE														
United States	**E1**	**99**	**39**	**3.7**	**31.2**	**3.1**	**6.3**	**23.1**	**61.7**	**117.1**	**178.4**	**5.8**	**3.6**	**50.9**
New England Division:														
Maine	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Massachusetts	E3	15	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Rhode Island	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:														
North Carolina	-	11	8	0.4	3.7	0.4	0.7	2.7	8.5	18.6	27.6	0.7	0.5	5.2
South Carolina	E1	13	7	0.8	6.3	0.7	1.3	5.2	14.1	35.3	50.7	(D)	(NA)	(D)
Georgia	-	5	4	0.4	3.5	0.4	0.8	2.9	5.6	9.5	15.0	0.3	(NA)	(D)
East South Central Division:														
Alabama	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2295, COATED FABRICS, NOT RUBBERIZED														
United States	-	191	109	13.6	182.3	9.9	20.9	117.1	413.1	650.5	1 059.0	26.0	18.0	382.4
New England Division:														
Massachusetts	-	20	16	1.8	23.0	1.3	2.9	15.2	43.7	89.8	133.0	1.6	2.8	54.6
Rhode Island	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Connecticut	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	33.9
Middle Atlantic Division:														
New York	-	23	15	0.8	9.6	0.6	1.2	5.7	20.8	37.1	57.6	1.3	1.7	31.9
New Jersey	E2	31	16	1.4	18.7	0.9	1.9	10.9	39.3	45.4	84.7	(D)	2.3	43.4
Pennsylvania	E1	8	5	0.7	9.5	0.5	1.0	5.6	23.4	25.7	48.7	1.1	0.8	17.1
East North Central Division:														
Ohio	-	18	12	2.5	35.5	1.6	3.4	22.5	74.3	140.4	213.6	(D)	3.5	83.9
Michigan	-	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Wisconsin	-	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Atlantic Division:														
North Carolina	-	7	5	0.6	6.6	0.5	1.1	3.8	13.9	40.8	54.0	1.5	(NA)	(D)
East South Central Division:														
Tennessee	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Mississippi	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
California	E1	19	9	0.5	6.2	0.4	0.7	3.5	15.0	19.3	34.0	0.6	(NA)	(D)
INDUSTRY 2296, TIRE CORD AND FABRIC														
United States	-	20	20	9.6	94.7	8.5	16.2	78.1	242.1	779.7	1 013.2	7.0	10.0	145.8
Middle Atlantic Division:														
New York	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pennsylvania	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Virginia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
North Carolina	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Carolina	-	5	5	1.0	10.0	0.8	1.8	7.9	33.1	84.5	116.7	1.2	0.9	13.9
Georgia	-	5	5	4.0	36.4	3.5	6.8	30.0	61.7	261.8	318.8	2.4	5.0	66.8
East South Central Division:														
Kentucky	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Tennessee	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Alabama	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
INDUSTRY 2297, NONWOVEN FABRICS														
United States	-	100	74	13.0	139.8	10.4	21.1	100.2	386.0	489.8	864.4	41.1	10.8	191.8
New England Division:														
Maine	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Massachusetts	E2	7	6	1.8	22.9	1.5	3.4	16.3	51.8	59.5	108.5	5.5	(NA)	(D)
Connecticut	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:														
New York	-	14	8	0.5	5.4	0.4	0.7	3.3	16.0	29.1	44.4	0.8	(NA)	(D)
New Jersey	-	7	6	0.9	11.0	0.7	1.2	7.1	22.3	38.2	60.2	(D)	(NA)	(D)
Pennsylvania	-	13	7	0.9	8.3	0.7	1.3	5.0	21.1	28.6	49.4	1.4	(NA)	(D)
East North Central Division:														
Illinois	E1	4	4	1.1	11.3	0.9	1.8	8.8	19.7	17.8	37.5	(D)	0.4	5.8
Michigan	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Wisconsin	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West North Central Division:														
Minnesota	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
South Dakota	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
North Carolina	-	10	9	1.0	9.8	0.9	1.9	7.6	26.5	36.5	63.0	4.4	(NA)	(D)
South Carolina	-	8	8	2.0	18.6	1.5	3.0	13.9	49.9	61.3	111.1	3.7	0.7	3.9
Georgia	-	5	3	0.9	8.4	0.7	1.4	6.0	18.4	34.5	52.8	(D)	(NA)	(D)
East South Central Division:														
Kentucky	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Alabama	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:														
Arkansas	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Texas	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
California	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2298, CORDAGE AND TWINE													
United States	-	**171**	**84**	**9.5**	**79.5**	**7.9**	**14.2**	**53.7**	**173.8**	**162.9**	**332.2**	**6.5**	**9.0**	**95.3**
New England Division:													
Maine	-	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts	-	10	7	0.3	3.0	0.2	0.5	2.0	7.9	7.8	15.3	0.7	0.3	5.4
Rhode Island	-	9	5	0.5	4.3	0.5	0.8	3.0	10.2	6.1	16.0	0.2	0.3	2.8
Connecticut	-	7	5	0.3	2.8	0.2	0.4	1.5	4.2	5.2	9.0	0.1	(NA)	(D)
Middle Atlantic Division:														
New York	-	10	6	0.6	6.6	0.5	1.1	4.7	15.5	15.4	29.7	0.4	1.5	13.3
New Jersey	-	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	7.3
Pennsylvania	-	9	7	0.7	6.9	0.6	1.1	4.7	13.7	15.2	28.2	0.5	0.3	3.6
East North Central Division:														
Ohio	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West North Central Division:														
Iowa	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
North Carolina	-	13	7	0.7	5.4	0.7	1.2	4.3	11.0	9.8	20.9	(D)	1.0	9.9
Georgia	-	17	10	1.3	9.0	1.1	2.0	5.4	20.6	17.8	38.0	0.6	(NA)	(D)
East South Central Division:														
Kentucky	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Alabama	-	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:														
Louisiana	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
California	-	12	5	0.3	2.0	0.2	0.4	1.6	6.1	6.2	12.1	0.1	0.2	3.3
INDUSTRY 2299, TEXTILE GOODS, N.E.C.														
United States	**E4**	**436**	**90**	**6.7**	**56.6**	**5.7**	**11.8**	**41.8**	**109.2**	**124.2**	**231.1**	**13.0**	**8.3**	**107.7**
New England Division:														
Massachusetts	E1	28	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	18.9
Rhode Island	E4	14	8	0.4	2.7	0.4	0.7	1.9	5.1	3.9	8.8	1.1	0.9	9.0
Middle Atlantic Division:														
New York	E4	93	19	1.1	9.8	0.9	1.9	7.2	20.0	25.8	45.4	1.6	1.3	17.9
New Jersey	E8	46	13	1.0	8.4	0.8	1.8	6.4	13.7	13.1	26.1	(D)	0.3	3.9
Pennsylvania	E2	31	5	0.3	2.9	0.3	0.5	1.9	5.5	6.6	12.0	0.3	0.8	9.0
South Atlantic Division:														
North Carolina	E4	52	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	7.6
South Carolina	E2	14	6	0.9	7.8	0.8	1.7	5.9	16.2	20.2	36.2	2.0	(NA)	(D)
Georgia	E6	29	5	0.3	2.0	0.2	0.5	1.5	4.6	5.1	9.6	1.1	0.2	3.1
East South Central Division:														
Tennessee	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:														
Texas	E1	18	4	0.3	2.2	0.3	0.5	1.8	3.7	2.8	6.5	0.1	(NA)	(D)
Pacific Division:														
California	E5	31	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Felt goods, except woven felts and hats (SIC 2291)	Lace goods (SIC 2292)	Paddings and upholstery fillings (SIC 2293)	Processed textile waste (SIC 2294)	Coated fabrics, not rubberized (SIC 2295)	Tire cord and fabric (SIC 2296)	Nonwoven fabrics (SIC 2297)	Cordage and twine (SIC 2298)	Textile goods, n.e.c. (SIC 2299)
Primary product specialization ratio[1]	percent	82	98	92	98	87	90	86	90	96
Coverage ratio[2]	do	82	98	84	95	89	99	66	95	68
All establishments	number	46	71	120	99	191	20	100	171	436
With 1 to 19 employees	do	19	47	64	60	82	-	26	87	346
With 20 to 99 employees	do	13	18	44	30	76	2	31	58	79
With 100 employees or more	do	14	6	12	9	33	18	43	26	11
All employees, average for year	1,000	4.3	2.2	5.2	3.7	13.6	9.6	13.0	9.5	6.7
Payroll for year, all employees	mil. dol.	50.7	17.9	52.9	31.2	182.3	94.7	139.8	79.5	56.6
Production workers:										
Average for year	1,000	3.3	1.9	4.1	3.1	9.9	8.5	10.4	7.9	5.7
March	do	3.2	1.9	3.9	3.0	9.8	8.7	10.1	7.8	5.7
May	do	3.3	1.9	4.1	3.1	10.0	8.5	10.4	7.9	5.8
August	do	3.3	1.9	4.1	3.2	10.0	8.3	10.6	7.9	5.7
November	do	3.3	1.9	4.2	3.3	9.8	8.3	10.5	8.0	5.6
Hours	millions	6.7	3.6	8.4	6.3	20.9	16.2	21.1	14.2	11.8
January to March	do	1.7	0.9	2.0	1.5	5.1	4.3	5.1	3.6	3.1
April to June	do	1.7	0.9	2.1	1.6	5.5	4.2	5.3	3.5	3.1
July to September	do	1.7	0.9	2.1	1.6	5.0	3.8	5.3	3.5	2.9
October to December	do	1.7	0.9	2.1	1.7	5.3	3.9	5.4	3.6	2.8
Wages	mil. dol.	33.1	14.0	36.4	23.1	117.1	78.1	100.2	53.7	41.8
Cost of materials, etc.	do	96.8	18.5	128.3	117.1	650.5	779.7	489.8	162.9	124.2
Materials, parts, containers, etc., consumed	do	83.2	16.1	117.0	108.4	609.2	757.7	442.7	139.7	108.4
Resales	do	8.9	(D)	(D)	2.3	11.8	-	12.2	16.2	4.0
Fuels consumed	do	2.2	1.4	2.9	1.5	11.6	4.5	14.1	1.7	5.9
Purchased electric energy	do	2.3	0.7	3.5	2.7	10.0	17.2	10.1	4.9	5.0
Contract work	do	0.1	(D)	(D)	2.2	7.8	0.2	10.7	0.4	0.8
Value of shipments, including resales	do	197.7	45.9	251.8	178.4	1 059.0	1 013.2	864.4	332.2	231.1
Value of resales	do	11.2	(D)	(D)	3.0	13.3	-	13.3	22.1	3.8
Value added by manufacture	do	103.0	27.7	124.5	61.7	413.1	242.1	386.0	173.8	109.2
Manufacturers' inventories:										
Beginning of year	do	33.0	11.7	19.1	26.2	188.4	130.0	104.0	73.4	24.7
Finished products	do	14.8	5.0	5.8	8.9	68.1	54.3	43.8	36.3	7.8
Work in process	do	6.2	3.0	0.5	7.7	35.1	23.3	19.7	13.2	7.4
Materials, supplies, fuel, etc.	do	12.0	3.7	12.9	9.6	85.2	52.4	40.5	24.0	9.5
End of year	do	36.3	12.6	19.6	27.5	190.0	126.7	121.5	79.4	27.8
Finished products	do	16.4	5.1	6.6	12.3	70.3	56.5	50.7	40.3	9.0
Work in process	do	6.5	3.2	0.6	4.5	37.5	29.6	24.2	13.6	8.5
Materials, supplies, fuel, etc.	do	13.4	4.3	12.4	10.6	82.2	40.5	46.6	25.5	10.3
Capital expenditures for plant and equipment	do	6.1	1.1	6.1	6.2	28.6	8.0	42.0	7.3	13.2
New capital expenditures	do	5.7	1.0	5.8	5.8	26.0	7.0	41.1	6.5	13.0
New buildings and other structures	do	1.5	0.2	1.9	1.9	7.8	0.5	10.5	1.7	3.5
New machinery and equipment	do	4.3	0.8	4.0	3.9	18.2	6.6	30.5	4.9	9.4
Used capital expenditures	do	0.3	(Z)	0.3	0.4	2.5	0.9	0.9	0.7	0.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Felt goods except woven felts and hats (SIC 2291)		Lace goods (SIC 2292)		Paddings and upholstery fillings (SIC 2293)		Processed textile waste (SIC 2294)		Coated fabrics, not rubberized (SIC 2295)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:										
Cost of purchased services for repair of--										
Buildings and other structures	(0.4)	33	-	(X)	(0.6)	46	0.2	1	1.2	6
Response coverage ratio[2] (percent)	69.8	(X)	60.1	(X)	55.0	(X)	65.2	(X)	67.7	(X)
Machinery	(2.2)	35	0.1	31	(2.8)	25	1.4	13	5.4	4
Response coverage ratio[2] (percent)	78.2	(X)	68.7	(X)	52.0	(X)	61.5	(X)	64.5	(X)
Cost of purchased communication services	(0.8)	19	0.1	60	(1.3)	44	0.2	1	2.4	5
Response coverage ratio[2] (percent)	78.4	(X)	54.4	(X)	59.2	(X)	72.7	(X)	69.4	(X)
Rental payments	0.9	5	0.8	10	(2.9)	28	(1.2)	45	8.1	8
Buildings and other structures	0.5	7	0.7	11	(1.7)	33	(0.7)	54	4.3	12
Machinery and equipment	0.4	4	0.1	1	(1.2)	29	(0.4)	65	3.8	8
Supplemental labor costs	10.5	1	2.4	3	9.5	7	5.1	4	37.7	1
Legal costs	4.4	1	1.5	4	5.1	8	3.0	4	15.6	1
Voluntary costs	6.1	1	0.9	2	4.4	8	2.2	5	22.1	2
Gross value of depreciable assets:										
Buildings and other structures:										
Beginning of year	22.4	7	10.1	12	22.1	10	(11.9)	20	87.9	4
New capital expenditures	(1.4)	40	(1.9)	77	(2.0)	23	2.0	8	(9.9)	27
Used capital expenditures	-	(X)	-	(X)	-	(X)	-	(X)	0.2	2
Retirements	(0.1)	28	(0.2)	31	1.3	5	(0.8)	83	4.4	2
End of year	23.7	6	11.8	7	22.8	10	(13.1)	18	93.6	3
Machinery and equipment										
Beginning of year	53.0	6	14.2	10	39.7	7	22.0	13	243.2	3
New capital expenditures	(4.1)	38	(3.1)	67	(6.6)	36	(5.2)	17	20.4	14
Automobiles, trucks, etc., for highway use[3]	(0.1)	(A)	-	(X)	(0.2)	(A)	(0.2)	(A)	(1.1)	(A)
Computers and peripheral data processing equipment[3]	(Z)	(X)	-	(X)	(0.1)	(A)	-	(X)	(0.6)	(A)
All other[3]	(4.0)	(A)	(3.1)	(A)	(5.2)	(A)	(4.3)	(A)	(17.3)	(A)
New machinery and equipment, n.s.k.[4]	-	(X)	-	(X)	(1.1)	(A)	(0.6)	(A)	(1.4)	(A)
Used capital expenditures	0.3	11	-	(X)	(0.4)	40	0.3	6	1.9	11
Retirements	1.1	12	(0.7)	25	2.7	8	(2.1)	28	13.6	3
End of year	56.2	5	16.5	4	44.0	5	25.4	12	251.9	2
Total gross value of depreciable assets:										
Beginning of year	75.3	5	24.2	10	61.8	7	(33.9)	15	331.1	3
New capital expenditures	(5.5)	38	(4.9)	71	(8.6)	29	7.1	13	(30.2)	18
Used capital expenditures	0.3	11	-	(X)	(0.4)	37	0.4	6	2.1	10
Retirements	1.3	13	(1.0)	27	4.0	7	(2.9)	43	18.0	3
End of year	79.9	4	28.2	5	66.8	5	38.5	14	345.4	2
Depreciation charges during 1977	4.3	8	(1.1)	16	4.2	7	2.4	12	20.8	2
Buildings and other structures	0.7	5	(0.2)	23	0.9	10	0.7	14	3.4	4
Machinery and equipment	3.7	9	0.8	14	3.3	7	1.7	12	17.4	2

See footnotes at end of table.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977—Con.

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Tire cord and fabric (SIC 2296)		Nonwoven fabrics (SIC 2297)		Cordage and twine (SIC 2298)		Textile goods, n.e.c. (SIC 2299)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	0.6	1	1.5	10	(0.7)	23	0.1	1
Response coverage ratio[2] (percent)	76.2	(X)	61.0	(X)	54.5	(X)	74.0	(X)
Machinery	3.4	1	(7.6)	29	(3.0)	17	.5	13
Response coverage ratio[2] (percent)	81.0	(X)	59.9	(X)	64.9	(X)	73.6	(X)
Cost of purchased communication services	.3	1	(1.2)	22	(1.1)	25	.1	3
Response coverage ratio[2] (percent)	52.1	(X)	61.9	(X)	75.2	(X)	79.0	(X)
Rental payments	1.8	1	3.8	4	2.1	10	6.4	8
Buildings and other structures	.7	1	2.3	5	1.2	13	1.6	8
Machinery and equipment	1.0	1	1.6	4	.9	9	4.8	9
Supplemental labor costs	17.9	1	25.6	1	13.3	3	8.3	3
Legal costs	7.7	1	13.2	1	6.9	2	5.1	3
Voluntary costs	10.2	1	12.4	1	6.5	5	3.2	3
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	66.8	1	86.3	1	37.1	11	29.3	7
New capital expenditures	.5	1	10.1	3	(1.2)	30	(2.9)	29
Used capital expenditures	.2	1	.3	1	-	(X)	-	(X)
Retirements	1.0	1	1.9	3	1.7	7	.9	6
End of year	66.4	1	94.9	1	36.7	11	31.3	6
Machinery and equipment:								
Beginning of year	194.2	1	231.4	2	78.4	8	77.3	7
New capital expenditures	6.6	1	29.5	2	(5.9)	22	(5.6)	21
Automobiles, trucks, etc., for highway use[3]	(Z)	(A)	(3.6)	(A)	(.5)	(A)	(.1)	(A)
Computers and peripheral data processing equipment[3]	(Z)	(A)	(Z)	(A)	(Z)	(X)	(Z)	(A)
All other[3]	(6.4)	(A)	(23.0)	87	(4.2)	(A)	(4.7)	(A)
New machinery and equipment, n.s.k.[4]	(.2)	(A)	(2.9)	(A)	(1.2)	(A)	(.8)	(A)
Used capital expenditures	.8	1	.6	2	.4	1	.2	1
Retirements	4.4	1	10.5	2	4.4	8	3.0	6
End of year	197.1	1	251.1	2	80.3	8	80.1	6
Total gross value of depreciable assets:								
Beginning of year	261.0	1	317.8	2	115.5	9	106.6	6
New capital expenditures	7.0	1	39.6	2	(7.1)	21	(8.5)	22
Used capital expenditures	.9	1	.9	2	.4	1	.2	1
Retirements	5.4	1	12.3	2	6.1	8	3.9	6
End of year	263.6	1	346.0	2	117.0	9	111.4	6
Depreciation charges during 1977	14.2	1	23.5	2	6.4	9	7.1	6
Buildings and other structures	2.7	1	3.8	2	1.4	12	1.3	5
Machinery and equipment	11.5	1	19.7	2	5.0	9	5.8	6

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

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Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2291, FELT GOODS, EXCEPT WOVEN FELTS AND HATS												
Total	-	46	4.3	50.7	3.3	6.7	33.1	103.0	96.8	197.7	5.7	36.3
Establishments with an average of—												
1 to 4 employees	E7	8	(Z)	0.1	(Z)	(Z)	0.1	0.1	0.4	0.6	(Z)	0.1
5 to 9 employees	E7	5	(Z)	0.4	(Z)	0.1	0.2	0.4	1.1	1.5	(Z)	0.3
10 to 19 employees	E8	6	0.1	0.8	0.1	0.1	0.5	0.6	1.9	2.5	0.1	0.5
20 to 49 employees	-	6	0.2	2.0	0.1	0.3	1.4	3.8	5.1	8.7	0.3	0.9
50 to 99 employees	-	7	0.6	5.3	0.5	0.9	4.0	7.8	15.9	23.7	(5.2)	4.4
100 to 249 employees	-	8	1.3	16.6	1.0	2.2	11.2	34.4	22.6	56.8	(D)	10.7
250 to 499 employees	-	5	(2.1)	(25.6)	(1.6)	(3.1)	(15.7)	(56.0)	(49.8)	(104.0)	(D)	(19.3)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	16	0.1	1.4	0.1	0.2	0.9	0.9	3.6	4.5	0.1	1.0
INDUSTRY 2292, LACE GOODS												
Total	-	71	2.2	17.9	1.9	3.6	14.0	27.7	18.5	45.9	1.0	12.6
Establishments with an average of—												
1 to 4 employees	E5	22	(Z)	0.4	(Z)	0.1	0.3	0.5	0.4	0.9	0.1	0.2
5 to 9 employees	E3	13	0.1	0.6	0.1	0.1	0.5	0.9	0.6	1.4	(Z)	0.3
10 to 19 employees	E2	12	0.2	1.4	0.1	0.3	1.2	2.1	1.4	3.5	(Z)	0.9
20 to 49 employees	E1	15	0.5	3.8	0.5	0.9	3.1	6.1	3.5	9.5	0.5	1.8
50 to 99 employees	-	3	0.2	1.9	0.2	0.4	1.5	3.5	2.4	6.0	0.1	1.8
100 to 249 employees	-	5	(1.2)	(9.8)	(1.0)	(1.9)	(7.4)	(14.5)	(10.3)	(24.6)	(0.3)	(7.4)
250 to 499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	14	(Z)	0.3	(Z)	0.1	0.3	0.5	0.4	0.9	(Z)	0.3
INDUSTRY 2293, PADDINGS AND UPHOLSTERY FILLING												
Total	-	120	5.2	52.9	4.1	8.4	36.4	124.5	126.3	251.8	5.8	19.6
Establishments with an average of—												
1 to 4 employees	E0	21	(Z)	0.4	(Z)	0.1	0.3	0.8	0.9	1.7	(Z)	0.1
5 to 9 employees	E5	19	0.1	1.4	0.1	0.2	0.9	2.9	3.2	6.1	0.1	0.7
10 to 19 employees	E3	24	0.3	3.2	0.2	0.5	2.1	8.2	7.3	15.5	0.4	1.2
20 to 49 employees	E1	33	1.1	10.9	0.9	1.8	6.9	25.5	29.3	54.6	1.3	4.0
50 to 99 employees	-	11	0.8	9.2	0.7	1.5	6.8	21.2	22.0	43.2	0.8	2.6
100 to 249 employees	-	8	1.3	13.3	1.0	2.1	8.8	26.8	29.1	56.0	1.2	5.2
250 to 499 employees	-	3	(1.5)	(14.5)	(1.2)	(2.3)	(10.6)	(39.0)	(36.5)	(74.8)	(1.9)	(5.8)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	28	0.1	0.9	0.1	0.2	0.6	2.1	2.2	4.3	0.1	0.4
INDUSTRY 2294, PROCESSED TEXTILE WASTE												
Total	-	99	3.7	31.2	3.1	6.3	23.1	61.7	117.1	178.4	5.8	27.5
Establishments with an average of—												
1 to 4 employees	E7	26	0.1	0.8	0.1	0.1	0.4	0.8	2.2	3.0	0.1	0.5
5 to 9 employees	E4	18	0.1	1.0	0.1	0.2	0.7	2.1	4.2	6.2	0.1	1.0
10 to 19 employees	-	16	0.2	1.9	0.2	0.4	1.3	5.6	11.2	16.7	0.6	1.7
20 to 49 employees	E1	17	0.6	4.7	0.5	0.9	3.2	9.3	13.6	22.6	0.6	4.0
50 to 99 employees	-	13	0.9	7.3	0.7	1.4	5.1	14.5	27.7	42.8	1.2	8.8
100 to 249 employees	-	7	(1.8)	(15.7)	(1.6)	(3.3)	(12.4)	(29.5)	(58.2)	(87.1)	(3.3)	(11.5)
250 to 499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	29	0.1	0.9	0.1	0.2	0.7	1.4	4.0	5.4	0.1	0.9
INDUSTRY 2295, COATED FABRICS, NOT RUBBERIZED												
Total	-	191	13.6	182.3	9.9	20.9	117.1	413.1	650.5	1 059.0	26.0	190.0
Establishments with an average of—												
1 to 4 employees	E7	36	0.1	0.9	0.1	0.1	0.6	1.6	2.9	4.8	0.1	0.9
5 to 9 employees	E8	27	0.2	2.2	0.1	0.3	1.4	4.3	6.2	10.5	0.3	2.2
10 to 19 employees	E4	19	0.3	3.3	0.2	0.4	2.1	6.6	12.3	20.2	0.2	3.7
20 to 49 employees	E1	56	1.9	22.1	1.4	2.8	13.3	46.9	83.9	130.7	4.2	21.8
50 to 99 employees	-	20	1.5	16.9	1.1	2.1	9.5	37.4	50.7	87.3	1.3	14.7
100 to 249 employees	-	19	2.8	33.0	2.2	4.6	21.4	71.7	135.8	205.1	5.0	36.3
250 to 499 employees	-	7	2.4	32.8	1.8	3.8	22.2	71.5	128.6	198.5	3.0	36.3
500 to 999 employees	-	7	4.5	71.2	3.1	6.9	46.8	173.2	230.0	401.9	11.9	74.2
Covered by administrative records[2]	E0	54	0.4	4.5	0.3	0.6	2.9	9.2	13.6	22.8	0.5	4.4
INDUSTRY 2296, TIRE CORD AND FABRIC												
Total	-	20	9.6	94.7	8.5	16.2	78.1	242.1	779.7	1 013.2	7.0	126.7
Establishments with an average of—												
20 to 49 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	-	5	(1.0)	(9.9)	(0.8)	(1.7)	(7.6)	(30.3)	(115.7)	(143.6)	(1.2)	(10.3)
250 to 499 employees	-	6	2.3	22.6	2.0	4.2	18.9	50.9	221.9	266.2	2.1	38.6
500 to 999 employees	-	5	(6.4)	(62.1)	(5.6)	(10.4)	(51.6)	(160.9)	(442.1)	(603.5)	(3.7)	(77.7)
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2297, NONWOVEN FABRICS												
Total	-	**100**	**13.0**	**139.8**	**10.4**	**21.1**	**100.2**	**386.0**	**489.8**	**864.4**	**41.1**	**121.5**
Establishments with an average of—												
1 to 4 employees	E6	8	(Z)	0.2	(Z)	(Z)	0.1	0.4	0.8	1.4	0.1	0.2
5 to 9 employees	E5	6	(Z)	0.4	(Z)	0.1	0.2	0.9	0.9	1.8	0.1	0.2
10 to 19 employees	-	12	0.2	2.4	0.1	0.3	1.2	4.6	14.2	18.8	0.2	1.6
20 to 49 employees	-	17	0.6	5.6	0.4	0.9	3.8	11.2	25.6	38.3	0.8	3.1
50 to 99 employees	-	14	1.1	11.0	0.9	1.7	7.3	30.3	44.7	74.2	2.4	9.3
100 to 249 employees	-	29	4.8	52.1	3.8	7.6	36.8	152.0	214.0	359.5	24.7	53.9
250 to 499 employees	-	9	3.1	34.2	2.6	5.4	26.1	109.2	105.8	212.5	8.7	27.9
500 to 999 employees	-	5	3.2	34.2	2.5	5.1	24.7	77.4	83.9	158.1	4.1	25.3
Covered by administrative records[2]	E0	10	0.1	0.6	(Z)	0.1	0.4	1.1	1.3	2.4	0.1	0.4
INDUSTRY 2298, CORDAGE AND TWINE												
Total	-	**171**	**9.5**	**79.5**	**7.9**	**14.2**	**53.7**	**173.8**	**162.9**	**332.2**	**6.5**	**79.4**
Establishments with an average of—												
1 to 4 employees	E7	49	0.1	0.7	0.1	0.1	0.5	0.6	1.8	3.3	0.1	0.8
5 to 9 employees	E6	20	0.1	1.2	0.1	0.2	0.8	2.1	2.6	4.8	0.1	1.0
10 to 19 employees	E2	18	0.3	2.1	0.2	0.4	1.4	4.5	5.9	10.3	0.2	2.7
20 to 49 employees	-	37	1.1	9.3	0.9	1.7	6.3	17.2	20.0	37.2	0.9	6.3
50 to 99 employees	-	21	1.5	12.5	1.3	2.3	8.7	32.5	29.0	60.8	1.8	13.0
100 to 249 employees	-	19	3.2	25.8	2.6	4.8	17.6	49.6	50.7	98.9	2.2	25.9
250 to 499 employees	-	5	(3.2)	(27.9)	(2.7)	(4.5)	(18.5)	(67.2)	(52.9)	(116.9)	(1.2)	(29.8)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	55	0.2	1.5	0.2	0.3	1.0	3.2	3.6	6.8	0.2	1.7
INDUSTRY 2299, TEXTILE GOODS, N.E.C.												
Total	**E3**	**436**	**6.7**	**56.6**	**5.7**	**11.8**	**41.8**	**109.2**	**124.2**	**231.1**	**13.0**	**27.8**
Establishments with an average of—												
1 to 4 employees	E8	222	0.3	2.9	0.3	0.6	2.1	5.8	6.8	12.7	0.5	1.2
5 to 9 employees	E7	63	0.4	3.5	0.3	0.7	2.5	7.2	8.0	15.1	0.7	1.3
10 to 19 employees	E4	61	0.8	6.9	0.7	1.4	4.9	13.1	13.9	26.8	1.3	2.5
20 to 49 employees	E4	60	1.8	15.2	1.5	3.1	11.0	29.5	36.1	65.3	2.8	10.4
50 to 99 employees	E3	19	1.2	9.8	1.0	2.1	6.8	19.0	22.1	40.1	3.1	5.5
100 to 249 employees	E2	9	(2.1)	(18.2)	(1.8)	(3.9)	(14.5)	(34.6)	(37.3)	(71.1)	(4.6)	(6.8)
250 to 499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	232	1.0	8.6	0.9	1.9	6.2	16.1	19.0	35.2	1.2	3.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2291	**Felt goods, except woven felts and hats:**										
	Entire industry	46	4.3	50.7	3.3	6.7	33.1	103.0	96.8	197.7	5.7
	Establishments with 75 percent specialization or more	39	2.8	30.4	2.2	4.4	20.2	50.4	64.5	113.7	(D)
2292	**Lace goods:**										
	Entire industry	71	2.2	17.9	1.9	3.6	14.0	27.7	18.5	45.9	1.0
	Establishments with 75 percent specialization or more	58	1.9	15.0	1.6	2.9	11.7	22.2	16.1	38.0	1.0
2293	**Paddings and upholstery filling:**										
	Entire industry	120	5.2	52.9	4.1	8.4	36.4	124.5	128.3	251.8	5.8
	Establishments with 75 percent specialization or more	109	4.1	42.1	3.3	6.8	29.8	97.4	107.1	203.9	4.4
2294	**Processed textile waste:**										
	Entire industry	99	3.7	31.2	3.1	6.3	23.1	61.7	117.1	178.4	5.8
	Establishments with 75 percent specialization or more	88	3.3	28.4	2.8	5.7	20.9	56.8	115.8	172.4	(D)
2295	**Coated fabrics, not rubberized:**										
	Entire industry	191	13.6	182.3	9.9	20.9	117.1	413.1	650.5	1 059.0	26.0
	Establishments with 75 percent specialization or more	169	10.3	138.2	7.5	15.9	87.7	319.3	517.5	834.4	19.9
22951	Pyroxylin coated fabrics:										
	Establishments with this product class primary	7	0.7	7.6	0.6	1.2	6.0	14.4	38.3	52.4	0.5
	Establishments with 75 percent specialization or more in class	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22952	Vinyl coated fabrics:										
	Establishments with this product class primary	57	8.5	123.1	5.9	12.8	77.7	285.1	428.8	709.1	19.3
	Establishments with 75 percent specialization or more in class	48	6.1	90.4	4.2	9.3	56.5	214.3	320.9	534.1	(D)
22953	Other coated fabrics, not rubberized:										
	Establishments with this product class primary	41	3.4	39.0	2.6	5.3	24.9	87.5	147.6	236.1	4.5
	Establishments with 75 percent specialization or more in class	25	1.2	14.8	0.9	1.7	8.4	39.8	62.6	102.5	1.2
2296	**Tire cord and fabric:**										
	Entire industry	20	9.6	94.7	8.5	16.2	78.1	242.1	779.7	1 013.2	7.0
	Establishments with 75 percent specialization or more	16	7.0	70.1	6.1	11.5	57.6	191.2	641.3	824.9	(D)
2297	**Nonwoven fabrics:**										
	Entire industry	100	13.0	139.8	10.4	21.1	100.2	386.0	489.8	864.4	41.1
	Establishments with 75 percent specialization or more	85	9.4	102.3	7.3	14.6	70.8	261.7	361.9	616.5	33.6
22971	Nonwoven fabrics:										
	Establishments with this product class primary	55	8.7	97.7	6.9	14.1	71.3	282.4	344.4	619.4	28.9
	Establishments with 75 percent specialization or more in class	44	5.6	61.1	4.3	8.7	43.5	166.0	228.5	388.8	22.8
22972	Fabricated nonwoven products:										
	Establishments with this product class primary	22	3.3	32.5	2.7	5.4	22.4	78.8	116.7	192.4	6.4
	Establishments with 75 percent specialization or more in class	12	1.2	12.7	1.0	1.9	7.8	29.2	34.9	64.7	3.6
2298	**Cordage and twine:**										
	Entire industry	171	9.5	79.5	7.9	14.2	53.7	173.8	162.9	332.2	6.5
	Establishments with 75 percent specialization or more	158	7.3	61.7	6.0	11.3	42.1	131.2	134.1	260.7	5.6
22981	Hard fiber cordage and twine:										
	Establishments with this product class primary	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22982	Soft fiber cordage and twine, except cotton:										
	Establishments with this product class primary	70	6.5	56.5	5.3	9.4	38.1	128.8	120.0	245.3	4.1
	Establishments with 75 percent specialization or more in class	51	3.7	33.8	3.0	5.8	23.6	71.1	73.3	140.9	2.6
22983	Cotton cordage and twine:										
	Establishments with this product class primary	14	1.6	11.6	1.4	2.5	8.4	19.3	15.8	34.8	1.2
	Establishments with 75 percent specialization or more in class	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2299	**Textile goods, n.e.c.:**										
	Entire industry	436	6.7	56.6	5.7	11.8	41.8	109.2	124.2	231.1	13.0
	Establishments with 75 percent specialization or more	394	5.3	43.9	4.4	9.1	31.7	86.9	114.4	199.4	10.9
22992	Jute and linen goods, except felts, cord, and twine:										
	Establishments with this product class primary	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22993	Scouring and combing mill products:										
	Establishments with this product class primary	10	0.6	5.6	0.5	1.0	4.0	14.0	24.3	37.7	(D)
	Establishments with 75 percent specialization or more in class	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. **Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967**

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2291	Felt goods, except woven felts and hats.....1977..	197.8	153.3	33.3	11.2	82	186.2	153.3	32.9	82
	1972..	146.5	107.5	32.4	6.6	77	130.8	107.5	23.3	82
	1967..	133.6	94.8	29.7	9.1	76	131.0	94.8	36.2	72
2292	Lace goods.....1977..	45.9	39.2	.9	5.8	98	39.8	39.2	.6	98
	1972..	47.1	35.4	2.7	9.0	93	39.8	35.4	4.4	89
	1967..	65.7	52.6	.5	12.6	99	55.8	52.6	3.2	94
2293	Paddings and upholstery filling.....1977..	251.8	219.5	19.3	13.0	92	260.6	219.5	41.1	84
	1972..	134.6	112.9	18.4	3.3	86	154.3	112.9	41.4	73
	1967..	168.1	134.7	21.5	11.9	86	164.5	134.7	29.8	82
2294	Processed textile waste.....1977..	178.4	156.2	3.3	18.9	98	164.2	156.2	8.0	95
	1972..	133.8	113.7	.4	19.7	100	124.2	113.7	10.5	92
	1967..	91.5	75.1	3.2	13.2	96	82.0	75.1	6.9	92
2295	Coated fabrics, not rubberized.....1977..	1,059.0	874.5	136.8	47.7	87	987.1	874.5	112.6	89
	1972..	865.8	707.3	95.8	62.7	88	808.6	707.3	101.3	87
	1967..	616.2	507.5	73.7	35.0	87	571.3	507.5	63.8	89
2296	Tire cord and fabric.....1977..	1,013.2	906.2	102.2	4.8	90	919.8	906.2	13.6	99
	1972..	685.1	600.7	62.6	21.8	91	620.8	600.7	20.1	97
	1967..	444.1	365.6	68.7	9.8	84	404.6	365.6	39.0	90
2297	Nonwoven fabrics.....1977..	864.5	723.7	120.0	20.8	86	1,095.2	723.7	371.5	66
	[1]1972..	397.4	315.5	59.3	22.6	84	517.6	315.5	202.1	61
	[2]1967..	93.9	51.5	9.3	33.1	85	89.9	51.5	38.4	57
2298	Cordage and twine.....1977..	332.2	277.6	31.2	23.4	90	291.7	277.6	14.1	95
	1972..	191.0	160.4	26.1	4.5	86	174.7	160.4	14.3	92
	1967..	188.8	154.1	25.8	8.9	86	174.9	154.1	20.8	88
2299	Textile goods, N.E.C.....1977..	231.1	190.2	7.2	33.8	96	280.8	190.2	90.6	68
	1972..	211.8	164.7	4.8	42.3	97	214.4	164.7	49.7	77
	1967..	240.5	177.5	37.8	25.2	82	231.3	177.5	53.8	77

N.E.C. Not elsewhere classified.
[1]New SIC basis.
[2]Old SIC basis.

Table 5c. Industry-Product Analysis—Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Felt goods, except woven felts and hats (SIC 2291)	Lace goods (SIC 2292)	Paddings and upholstery filling (SIC 2293)	Processed textile waste (SIC 2294)	Coated fabrics, not rubberized (SIC 2295)	Tire cord and fabric (SIC 2296)	Nonwoven fabrics (SIC 2297)	Cordage and twine (SIC 2298)	Textile goods, n.e.c. (SIC 2299)	Other industries
	Total	(X)	197.8	45.9	251.8	178.4	1,059.0	1,013.2	864.5	332.2	231.1	(X)
	Primary products	(X)	153.3	39.2	219.5	156.2	874.5	906.2	723.7	277.6	190.2	(X)
	Secondary products	(X)	33.3	.9	19.3	3.3	136.8	102.2	120.0	31.2	7.2	(X)
	Miscellaneous receipts	(X)	11.2	5.8	13.0	18.9	47.7	4.8	20.8	23.4	33.8	(X)
22910	Pressed, punched, or needled felts	186.2	153.3	-	(D)	(D)	-	-	(D)	-	(D)	(D)
22920	Lace and net goods	39.8	-	(D)	-	-	-	-	-	-	-	(D)
22930	Paddings and upholstery filling	260.6	(D)	-	219.5	(D)	-	-	(D)	-	-	36.4
22940	Processed mill waste and related products	164.2	(D)	-	(D)	156.2	(D)	-	(D)	(D)	(D)	4.1
2295-	Coated fabrics, not rubberized	987.1	-	(D)	-	-	874.5	-	(D)	(D)	-	106.5
22951	Pyroxylin coated fabrics	37.6	-	(D)	-	-	36.1	-	-	(D)	-	(D)
22952	Vinyl coated fabrics	680.5	-	-	-	-	609.3	-	-	(D)	-	(D)
22953	Other coated fabrics, not rubberized	220.7	-	-	-	-	182.5	-	(D)	(D)	-	(D)
22950	Coated fabrics, not rubberized, n.s.k	48.3	-	-	-	-	46.5	-	-	(D)	-	(D)
22960	Tire cord and tire fabrics	919.8	-	-	-	-	-	906.2	-	-	-	13.5
2297-	Nonwoven fabrics	1,095.2	(D)	-	(D)	(D)	(D)	(D)	723.7	(D)	-	355.4
22971	Nonwoven fabrics	782.5	(D)	-	(D)	(D)	(D)	(D)	498.2	(D)	-	271.3
22972	Fabricated nonwoven products	260.8	-	-	-	-	-	(D)	173.5	-	-	(D)
22970	Nonwoven fabrics, n.s.k	51.9	-	-	-	-	-	-	51.9	-	-	-
2298-	Cordage and twine	291.7	-	(D)	-	-	(D)	-	(D)	277.6	-	(D)
22981	Hard fiber cordage and twine	42.5	-	(D)	-	-	(D)	-	-	(D)	-	-
22982	Soft fiber cordage and twine, except cotton	183.8	-	-	-	-	-	-	(D)	176.6	-	(D)
22983	Cotton cordage and twine	47.7	-	-	-	-	(D)	-	-	43.2	-	(D)
22980	Cordage and twine, n.s.k	17.7	-	-	-	-	-	-	-	(D)	-	(D)
2299-	Textile goods, n.e.c	280.8	-	-	(D)	-	-	-	(D)	(D)	190.2	(D)
22992	Jute and linen goods, except felts, cordage and twine	37.5	-	-	(D)	-	-	-	-	(D)	19.2	(D)
22993	Scouring and combing mill products	96.8	-	-	-	-	-	-	-	-	31.6	65.2
22990	Textile goods, n.e.c., n.s.k	146.5	-	-	-	-	-	-	(D)	-	139.4	(D)
	Other shipments by 4-digit product group:											
2211-	Cotton broad woven fabrics	(X)	-	-	-	-	-	(D)	(D)	-	-	(X)
2221-	Manmade fiber and silk broad woven fabrics	(X)	(D)	-	-	-	(D)	(D)	(D)	-	-	(X)
2231-	Broad woven wool fabrics	(X)	(D)	-	-	-	-	-	-	-	-	(X)
2269-	Finished textiles, n.e.c	(X)	-	-	-	-	-	-	(D)	-	-	(X)
2281-	Yarn, except wool	(X)	(D)	-	-	-	-	(D)	(D)	(D)	(D)	(X)
2284-	Thread	(X)	-	-	-	-	-	-	-	(D)	-	(X)
2392-	Housefurnishings, n.e.c	(X)	-	-	(D)	-	(D)	-	(D)	-	-	(X)
2393-	Textile bags	(X)	(D)	-	(D)	-	-	-	-	-	-	(X)
2399-	Fabricated textile products, n.e.c	(X)	-	-	-	-	-	-	(D)	(D)	-	(X)
2641-	Coated and glazed paper	(X)	-	-	-	-	(D)	-	(D)	-	-	(X)
2649-	Converted paper products, n.e.c	(X)	-	-	-	(D)	(D)	-	(D)	-	-	(X)
2751-	Commercial printing, letterpress	(X)	-	-	-	-	-	-	(D)	-	-	(X)
2952-	Asphalt felts and coatings	(X)	(D)	-	-	-	-	-	-	-	-	(X)
3069-	Fabricated rubber products, n.e.c	(X)	-	-	-	-	(D)	-	(D)	-	-	(X)
3079-	Miscellaneous plastics products	(X)	-	-	-	(D)	(D)	(D)	(D)	(D)	(D)	(X)
3842-	Surgical appliances and supplies	(X)	-	-	-	-	-	-	(D)	(D)	-	(X)
3949-	Sporting and athletic goods, n.e.c	(X)	-	-	-	-	-	-	-	(D)	-	(X)
	Miscellaneous receipts:											
93000 00	Contract work	(X)	(D)	(D)	6.7	15.8	29.9	(D)	6.9	(D)	29.3	(X)
99980 98	Other miscellaneous receipts	(X)	(D)	-	(D)	.2	4.6	(D)	.6	(D)	.6	(X)
99989 00	Resales	(X)	11.2	(D)	(D)	3.0	13.3	-	13.3	22.1	3.8	(X)

See footnotes at end of table.

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2291-	2279 Carpets and rugs, n.e.c.	(D)
2293-	2515 Mattresses and bedsprings	(D)
	3069 Fabricated rubber products, n.e.c.	(D)
	3079 Miscellaneous plastic products	(D)
2295-	2641 Paper coating and glazing	(D)
	3069 Fabricated rubber products, n.e.c.	(D)
	3079 Miscellaneous plastics products	(D)
2296-	2221 Weaving mills, manmade fiber and silk	(D)
2297-	2221 Weaving mills, manmade fiber and silk	(D)
	2621 Paper mills, except building paper	57.7
	2647 Sanitary paper products	(D)
	2771 Greeting card publishing	(D)
	2824 Organic fibers, noncellulosic	(D)
	3296 Mineral wool	(D)
2299-	2231 Weaving and finishing mills, wool	6.2
	2262 Finishing plants, manmade fiber and silk	(D)
	2281 Yarn mill, except wool	(D)
	2824 Organic fibers, noncellulosic	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	FELT GOODS, EXCEPT WOVEN FELTS AND HATS						
2291- --	Total	.....	(NA)	(X)	186.2	(X)	130.8
22910 --	Pressed, punched, or needled felts, except woven felts and hats:						
	Pressed wool felts:						
22910 11	Industrial felts (1/8 inch thick)	Million lb....	8	15.8	38.4	(3)	36.9
22910 19	Other pressed wool felts	Million lb....	7	9.2	15.9		
	Punched or needled felts:						
	Hair and/or jute felts, including carpet and rug linings and cushions:						
22910 36	Not coated or laminated with latex, vinyl, or plastic	Mil. sq. yd...	7	20.7	11.7	54.8	22.5
22910 38	Coated or laminated with latex, vinyl, or plastic	Mil. sq. yd...	10	74.0	53.3	28.9	17.2
22910 47	Wool felts and man-made fiber felts, excluding carpets and rugs suitable for outdoor use (indoor/outdoor)	Million lb....	11	39.6	61.7	24.2	49.3
22910 00	Felt goods, except woven felts and hats, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	.7	(X)	4.3
22910 02	Felt goods, except woven felts and hats, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	4.5	(X)	.6
	LACE GOODS						
2292- --	Total	.....	(NA)	(X)	39.8	(X)	39.8
22920 --	Lace and net goods:						
22920 15	Leavers lace machine products, including all-overs, edgings, insertions, galloons, and flouncings	Mil. sq. yd...					
22920 55	Nottingham lace machine products, including curtains	.....					
22920 98	All other laces and nets, including bobbinets and Barmen laces	.....	20	(S)	32.6	(S)	29.2
22920 00	Lace goods, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	6.3	(X)	5.9
22920 02	Lace goods, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	.9	(X)	4.7
	PADDINGS AND UPHOLSTERY FILLING						
2293- --	Total	.....	(NA)	(X)	260.5	(X)	154.3
22930 --	Paddings and upholstery filling, batting, and wadding, excluding foam rubber and plastics:						
22930 17	Automotive pads	Million lb....	14	*167.6	78.4	54.8	19.9
22930 19	All other paddings		17	**50.0	32.0	4 96.1	30.3
	Batting, wadding, and mattress felts:						
22930 32	Made from cotton linters, cotton waste, and raw cotton		32	*131.6	40.3	4 221.5	40.0
22930 34	Made from all other fibers		28	*75.7	42.9	(NA)	23.9
22930 57	Upholstery filling	Million lb....	14	(S)	21.6	42.3	15.6
22930 00	Paddings and upholstery filling, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	41.0	(X)	20.8
22930 02	Paddings and upholstery filling, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	4.3	(X)	3.8
	PROCESSED TEXTILE WASTE						
2294- --	Total	.....	(NA)	(X)	164.2	(X)	124.2
22940 --	Recovered fibers, processed mill waste, and related products:						
22940 14	Fibers recovered from clips and rags (new and used)	Million lb.....	10	**48.1	8.8	66.0	16.1
	Fibers recovered from mill waste, excluding fiber recovered from clips and rags:						
22940 21	Cotton		9	**59.1	14.2	100.8	12.2
22940 27	Manmade fibers		18	**259.7	83.1	4 175.4	60.0
22940 28	All other fibers, including oakum and wool		7	(S)	10.9	(NA)	4.2
22940 41	Flock, all fibers (new stock, waste, or reclaimed fiber)	Million lb.....	9	54.6	26.6	25.1	17.5
22940 00	Processed textile waste and recovered fibers, n.s.k., typically for establishments with 5 employees or more (see note).	.....	(NA)	(X)	15.2	(X)	9.2
22940 02	Processed textile waste and recovered fibers, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	5.4	(X)	5.0

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	COATED FABRICS, NOT RUBBERIZED						
2295- --	Total	Mil. lin. yd.	(NA)	(X)	987.0	(X)	808.6
22951 --	Pyroxylin-coated fabrics		(NA)	(X)	37.6	(NA)	26.3
	On a textile base:						
22951 11	Light cotton fabrics (print cloths, sheetings, etc.)		5	10.1	12.6	24.7	16.3
22951 15	Heavy cotton fabrics (ducks, drills, twills, sateens, etc.)		4	7.0	12.7	7.9	8.1
22951 19	Fabrics other than cotton		5	8.9	10.9		
22951 00	Pyroxylin-coated fabrics, n.s.k.		(NA)	(X)	1.4	(NA)	1.9
22952 --	Vinyl-coated fabrics, including expanded vinyl-coated fabrics		(NA)	(X)	680.4	488.3	601.9
	Lightweight fabrics, 10 oz. and under per square yard finished weight:						
22952 13	Woven fabric base		20	31.2	52.7	176.5	127.0
22952 15	Knitted fabric base		12	21.9	27.4	43.2	44.1
22952 17	Nonwoven base		4	**12.1	21.5		
	Mediumweight fabrics, over 10 oz. to and including 16 oz. per square yard finished weight:						
22952 22	Woven fabric base		25	30.8	71.5	34.2	59.6
22952 24	Knitted fabric base		14	79.2	102.3	22.7	27.6
22952 26	Nonwoven base		5	9.6	18.3		
	Heavyweight fabrics, over 16 oz. per square yard finished weight:						
22952 32	Woven fabric base		18	36.7	79.0	74.3	127.7
22952 34	Knitted fabric base		13	94.5	226.4	112.6	185.1
22952 36	Nonwoven base		8	18.8	45.0	2.8	3.8
22952 00	Vinyl-coated fabrics, n.s.k.		(NA)	(X)	36.3	22.0	27.0
22953 --	All other coated fabrics, including polyolefin, polyamides, fluoride polymers, etc., but excluding pyroxylin, vinyl, and rubber		(NA)	(X)	220.7	172.1	154.1
	Lightweight fabrics, 10 oz. and under per square yard finished weight:						
22953 22	Woven fabric base		21	53.7	45.1	37.7	34.6
22953 24	Knitted fabric base		4	6.8	17.3	5.1	6.9
22953 26	Nonwoven base		6	24.2	13.9	[3]34.0	19.0
	Mediumweight fabrics, over 10 oz. to and including 16 oz. per square yard finished weight:						
22953 32	Woven fabric base		13	*15.3	36.4	18.5	23.8
22953 34	Knitted fabric base		(NA)	(D)	(D)		
22953 36	Nonwoven base		(NA)	(D)	(D)	-	-
	Heavyweight fabrics, over 16 oz. per square yard finished weight:						
22953 42	Woven fabric base		7	5.2	12.3	24.0	13.9
22953 44	Knitted fabric base		4	2.5	3.9		
22953 46	Nonwoven base		(NA)	(D)	(D)		
22953 15	Polyurethane coated fabrics		15	*34.1	51.1	17.8	23.0
22953 00	All other coated fabrics, except rubber coated, n.s.k.	Mil. lin. yd.	(NA)	(X)	31.2	38.3	32.9
22950 00	Coated fabrics, except rubberized, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	25.5	(X)	22.8
22950 02	Coated fabrics, except rubberized, n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	22.8	(X)	3.5

1977 product code	Product	Unit of measure	Number of companies with shipments of $100,000 or more	1977				1972			
				Product shipments[1] including interplant transfers		Interplant transfers		Product shipments including interplant transfers		Interplant transfers	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)	Quantity	Value (million dollars)
	TIRE CORD AND FABRIC										
2296- --	Total	Million lb.	11	699.0	919.8	558.6	753.2	663.8	620.8	516.2	471.3
22960 --	Tire cord and fabric:										
22960 00	Tire cord and fabric	Million lb.	11	699.0	919.8	558.6	753.2	663.8	620.8	516.2	471.3

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	NONWOVEN FABRICS AND RELATED PRODUCTS[6]						
2297- --	Total	.....	(NA)	(X)	[7]1,095.1	(NA)	[7]517.6
22971 --	Nonwoven fabrics	.....	(NA)	(X)	782.4	(X)	376.1
	Laminated and wet laid	Mil. sq. yd...	(NA)	2,057.1	281.6	1,971.6	112.5
22971 21	Under 1 ounce per square yard		10	1,057.0	118.8	795.3	19.5
22971 23	1 ounce to 2.5 ounces per square yard		13	890.2	120.9	913.2	55.1
22971 25	Over 2.5 ounces per square yard		11	109.9	41.9	263.1	37.9
	Spun bonded, dry laid, and others		(NA)	3,585.6	464.6	3,606.9	263.6
22971 31	Under 0.8 ounce per square yard		15	1,827.9	109.7	2,318.5	79.6
22971 33	0.8 ounce to 1.5 ounces per square yard		13	482.9	62.9	540.3	53.5
22971 35	Over 1.5 ounces per square yard	Mil. sq. yd...	29	1,274.8	292.0	748.1	130.5
22971 00	Nonwoven fabrics, n.s.k.	.....	(NA)	(X)	36.2	(X)	([8])
22972 --	Fabricated nonwoven products	.....	(NA)	(X)	260.8	(X)	120.8
22972 41	Blankets, made from nonwoven products	Thous. doz....	9	2,022.3	102.0	1,262.8	48.3
	Ribbons, nonwoven, for gift tyings:						
22972 03	Christmas gift tyings	Mil. lin. yd..	6	2,023.2	25.6	1,201.1	23.1
22972 05	Other gift tyings	Mil. lin. yd..	6	678.6	11.4	1,187.4	22.0
22972 51	Wipers made from nonwoven fabrics (windshield, industrial, and lithographic)	Million doz...	9	**172.7	65.5	31.8	5.3
22972 98	Other nonwoven products	Million doz...	17	(X)	47.0	(X)	22.1
22972 00	Fabricated nonwoven products, n.s.k.	.....	(NA)	(X)	9.3	(X)	([8])
22970 00	Nonwoven fabrics and related products, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	49.5	(X)	[8]20.7
22970 02	Nonwoven fabrics and related products, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	2.4		
	CORDAGE AND TWINE						
2298- --	Total	Million lb....	(NA)	(X)	291.6	(X)	174.7
22981 --	Hard fiber cordage and twine		(NA)	(X)	42.5	(X)	42.3
	Hard fiber cordage:						
22981 18	Abaca rope and cable		6	15.9	18.5	46.9	24.8
22981 29	Other hard fiber rope and cable		9	11.6	12.7	6.0	2.4
	Hard fiber twine:						
22981 32	Baler and binder twine		7	**[9]26.9	[9]11.3	[9] [5]41.2	[9]14.6
22981 39	Other hard fiber twine, including twine and cord made of a combination of hard fiber and paper						
22981 00	Hard fiber cordage and twine, n.s.k.		(NA)	-	-	(X)	.5
22982 --	Soft fiber cordage and twine, except cotton		(NA)	(X)	183.8	(X)	86.2
	Manmade fiber cordage and twine:						
22982 07	Fish line, fish nets, and fish netting (made in this establishment)		20	10.6	33.9	6.6	11.0
22982 08	Rope		30	52.3	76.8	35.6	38.9
22982 11	Twine, agricultural		-	59.7	54.2	[4]16.2	14.7
22982 12	All other manmade fiber cordage and twine, including industrial twine		37				
	Soft fiber cordage and twine, except cotton or manmade:						
22982 23	Jute		5	13.1	7.5	[4]19.7	7.8
22982 25	Paper		5	*15.4	7.2	[5]30.8	7.9
22982 27	Other		3	5.0	3.4	[5]2.2	1.4
22982 00	Soft fiber cordage and twine, except cotton, n.s.k.		(NA)	(X)	.8	(X)	4.5
22983 --	Cotton cordage and twine		(NA)	(X)	47.6	(X)	30.7
22983 11	Braided cord		10	*7.3	11.0	[4]9.5	11.6
22983 25	Wrapping, seine, and other twine		7	29.0	24.9	19.0	12.5
22983 98	All other cotton cordage and twine, including fish nets		5	8.7	9.9	(X)	[9]6.6
22983 00	Cotton cordage and twine, n.s.k.	Million lb....	(NA)	(X)	1.8		
22980 00	Cordage and twine, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	10.9	(X)	8.0
22980 02	Cordage and twine, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	6.8	(X)	7.5
	TEXTILE GOODS, N.E.C.						
2299- --	Total	Million lb....	(NA)	(X)	[10]280.8	(X)	[10]214.4
22992 --	Jute goods, except jute felts, cordage or twine, and linen goods		(NA)	(X)	37.5	(X)	21.0
22992 61	Jute yarn, bagging, and all other jute woven goods, except felts		10	(X)	20.9	(X)	13.1
22992 75	Linen thread, fabric, and other linen goods		6	(X)	14.0	(X)	7.0
22992 00	Jute goods, except jute felts, cordage or twine, and linen goods, n.s.k.	Million.....	(NA)	(X)	2.6	(X)	.9

See footnotes at end of table.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
2299- --	TEXTILE GOODS, N.E.C.--Con.						
22993 --	Scouring and combing mill products	Million	(NA)	81.0	96.8	48.0	60.0
22993 40	Tops and noils, including top or sliver converted from tow without combing[11]		8	57.7	73.8	38.3	50.4
22993 50	Scoured wool and other scouring and combing mill products, including nubs and slubs, etc		10	23.3	23.0	9.7	9.6
22990 --	Other textile goods, n.e.c.:						
22990 98	Other textile goods, n.e.c	Million lb	4	(X)	23.0	(X)	36.5
22994 --	Receipts for commission scouring, combing, and related processing of materials owned by others:						
22994 93	Receipts for commission scouring, combing, and related processing of materials owned by others		(NA)	(X)	[10]29.3	(X)	[10]27.1
22990 00	Textile goods, n.e.c., n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	[12]88.3	(X)	[12]70.5
22990 02	Textile goods, n.e.c., n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	[12]35.2	(X)	[12]26.4

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]Data withheld because too few producers reported product detail requested.

[4]10 to 30 percent quantity was estimated.

[5]Over 30 percent of quantity was estimated.

[6]Nonwoven fabrics are defined as those fabrics of textile structure produced by bonding or interlocking of fibers, or both, accomplished by mechanical, chemical, or solvent means and combinations thereof. They can be further defined as a textile structure consisting of a web or mat or fibers held together with a bonding material. Excluded from this category are paper, woven, knitted, or tufted fabrics; and pressed, punched, or woven felts.

[7]Includes some duplication since some nonwoven ribbons and related nonwoven products are made from purchased nonwoven fabrics.

[8]For 1972, product codes 22971 00 and 22972 00 were combined with product codes 22970 00 and 22970 02.

[9]Product codes 22981 32 and 22981 39 and product codes 22983 98 and 22983 00 were combined to avoid disclosing operations of individual companies.

[10]Total doesn't include commission receipts (product code 22994 93).

[11]Data are published monthly in Current Industrial Reports M22D, Consumption on the Woolen and Worsted Systems.

[12]Data include a large number of firms classified only as textile type activities in major group 22. Information to correctly classify these plants into appropriate 4-digit code is not available.

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
22951, PYROXYLIN COATED FABRICS		
United States	37.6	26.3
New England Division:		
Massachusetts	3.9	BB
22952, VINYL COATED FABRICS		
United States	680.5	601.9
New England Division:		
Massachusetts	93.5	89.9
Middle Atlantic Division:		
New York	48.3	38.9
New Jersey	44.1	41.0
Pennsylvania	30.0	32.5
East North Central Division:		
Ohio	158.4	GG
Pacific Division:		
California	7.8	EE
22953, OTHER COATED FABRICS, NOT RUBBERIZED		
United States	220.7	154.1
New England Division:		
Massachusetts	52.3	28.5
Connecticut	23.8	18.7
Middle Atlantic Division:		
New York	19.3	EE
New Jersey	23.1	26.9
Pennsylvania	14.4	CC
East North Central Division:		
Michigan	16.4	AA
South Atlantic Division:		
North Carolina	12.6	BB
Pacific Division:		
California	19.0	EE
22971, NONWOVEN FABRICS		
United States	782.5	376.1
New England Division:		
Massachusetts	61.4	FF
Connecticut	52.9	24.8
Middle Atlantic Division:		
New York	40.4	13.6
New Jersey	34.5	30.4
Pennsylvania	26.6	6.3
South Atlantic Division:		
North Carolina	36.9	39.0
South Carolina	70.1	8.6
Pacific Division:		
California	7.2	CC
22972, FABRICATED NONWOVEN PRODUCTS		
United States	260.8	120.8
Middle Atlantic Division:		
New Jersey	22.3	CC
Pennsylvania	18.4	CC
South Atlantic Division:		
North Carolina	95.2	FF
South Carolina	12.3	BB
22981, HARD FIBER CORDAGE AND TWINE		
United States	42.5	42.3
Middle Atlantic Division:		
Pennsylvania	3.5	(NA)
22982, SOFT FIBER CORDAGE AND TWINE, EXCEPT COTTON		
United States	183.8	86.2
New England Division:		
Massachusetts	14.6	7.0
Rhode Island	12.7	3.3
Connecticut	8.0	5.9
Middle Atlantic Division:		
New York	20.0	19.0
Pennsylvania	17.9	6.5
South Atlantic Division:		
North Carolina	5.4	BB
Georgia	8.9	AA
West South Central Division:		
Louisiana	10.0	BB
Pacific Division:		
Washington	4.1	(NA)
California	7.6	3.8
22983, COTTON CORDAGE AND TWINE		
United States	47.7	30.7
East South Central Division:		
Alabama	8.5	CC
22992, JUTE AND LINEN GOODS, EXCEPT FELTS, CORD AND TWINE		
United States	37.5	21.0
Middle Atlantic Division:		
New York	12.4	(NA)
22993, SCOURING AND COMBING MILL PRODUCTS		
United States	96.8	60.0
South Atlantic Division:		
North Carolina	5.1	(NA)
South Carolina	22.7	BB

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available.

Table 6c. Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
22910	Pressed, punched, or needled felts	186.2	161.8	140.6	145.7	148.4	130.8	131.0	119.6
22920	Lace and net goods	39.8	(25.0)	(19.5)	22.2	40.5	39.8	55.8	49.4
22930	Paddings and upholstery filling	260.6	187.1	155.7	160.1	174.2	154.3	164.5	150.3
22940	Processed mill waste and related products	164.2	(142.5)	(118.2)	(202.1)	145.1	124.2	82.0	83.3
2295-	Coated fabrics, not rubberized	987.1	1,065.4	913.6	989.4	938.3	808.6	571.3	427.3
22951	Pyroxylin coated fabrics	37.6	32.5	28.0	34.5	27.2	26.3	38.6	39.3
22952	Vinyl coated fabrics	680.5	817.4	681.5	728.7	693.7	601.9	345.2	233.4
22953	Other coated fabrics, not rubberized	220.7	213.8	202.7	212.6	188.0	154.1	164.5	137.4
22950	Coated fabrics, not rubberized, n.s.k.	48.3	(S)	(S)	(13.6)	29.4	26.3	23.0	17.2
22960	Tire cord and tire fabrics	919.8	731.4	652.1	689.9	643.5	620.8	404.6	349.2
2297-	Nonwoven fabrics	1,095.2	923.9	771.1	766.3	594.7	517.6	(NA)	(NA)
22971	Nonwoven fabrics	782.5	664.0	595.9	562.6	424.5	376.1	164.3	110.6
22972	Fabricated nonwoven products	260.8	242.6	167.0	192.8	164.1	120.8	(NA)	(NA)
22970	Nonwoven fabrics, n.s.k.	51.9	17.3	8.2	10.9	(6.1)	20.7	(NA)	(NA)
2298-	Cordage and twine	291.7	277.9	285.0	276.6	209.1	174.7	174.9	145.0
22981	Hard fiber cordage and twine	42.5	87.9	117.9	101.2	54.9	42.3	36.3	42.5
22982	Soft fiber cordage and twine, except cotton	183.8	133.3	128.7	122.4	102.3	86.2	83.3	59.8
22983	Cotton cordage and twine	47.7	(47.5)	(48.9)	53.0	35.8	30.7	43.4	38.2
22980	Cordage and twine, n.s.k.	17.7	(S)	([2])	(S)	16.1	15.5	11.9	4.8
2299-	Textile goods, n.e.c.	280.8	(156.6)	124.0	163.2	252.0	214.4	(NA)	(NA)
22992	Jute and linen goods, except felts, cord and twine	37.5	(53.6)	(44.2)	(59.0)	33.7	21.0	29.9	42.9
22993	Scouring and combing mill products	96.8	72.6	51.4	(66.9)	87.3	60.0	89.9	111.1
22990	Textile goods, n.e.c., n.s.k.	146.5	(30.4)	(28.4)	(37.3)	131.0	133.4	37.1	10.4

(NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]Withheld because estimated figure is negative. This is consequence of using difference method of estimation (see Estimating Procedures in appendix B) and of improved establishment reporting that resulted in changing classification of shipments from n.s.k. code for 1972 Census to specified 5-digit product classes for this year. Four-digit total is best estimate, even though smaller than sum of 5-digit values.

Table 7. **Materials Consumed by Kind: 1977 and 1972**

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2291, FELT GOODS, EXCEPT WOVEN FELTS AND HATS					
	Materials, containers, and supplies	.....	(X)	83.2	(X)	57.9
229931	Raw wool, mohair and other animal fibers	Million lb.....	15.4	21.4	5.0	4.8
999823	Wool noils and waste				14.8	10.4
999807	Other fibers (manmade fiber staple, tow, waste, etc.)		34.2	19.4	34.5	9.8
999825	New and used rags, clips, etc		(S)	4.0	(X)	(2)
228015	Textile yarns	Million lb.....	1.0	1.0	(X)	(2)
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc	.....	(X)	3.0	(X)	(2)
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	.....				
970099	All other materials and components, parts, containers, and supplies	.....	(X)	30.0	(X)	231.1
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	4.4	(X)	1.8
	INDUSTRY 2292, LACE GOODS					
	Materials, containers, and supplies	.....	(X)	16.2	(X)	13.8
228102	Cotton yarns	Million lb.....	1.0	1.9	1.5	1.6
282011	Manmade fiber yarn (rayon, acetate, nylon, etc.)	Million lb.....	2.7	6.4	43.1	5.1
970099	All other materials and components, parts, containers, and supplies	.....	(X)	2.9	(X)	4.2
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	5.0	(X)	2.9
	INDUSTRY 2293, PADDINGS AND UPHOLSTERY FILLING					
	Materials, containers, and supplies	.....	(X)	117.1	(X)	66.3
999806	Cotton waste	Million lb.....	41.9	7.3	146.2	8.9
207431	Cotton linters		*52.1	5.6	4117.4	7.9
999807	Other fibers (manmade fiber staple, tow, waste, etc.)		62.5	25.8	42.5	15.0
999825	New and used rags, clips, etc	Million lb.....	(S)	9.4	(X)	(5)
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc	.....	(X)	1.5	(X)	(5)
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	.....				
970099	All other materials and components, parts, containers, and supplies	.....	(X)	45.2	(X)	519.3
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	22.3	(X)	15.2
	INDUSTRY 2294, PROCESSED TEXTILE WASTE					
	Materials, containers, and supplies	.....	(X)	108.4	(X)	70.0
999806	Cotton waste	Million lb.....	**55.6	8.9	74.6	5.6
999823	Wool noils and waste		(S)	5.2	(D)	(D)
999807	Other fibers (manmade fiber staple, tow, waste, etc.)		(S)	66.5	184.2	40.6
999825	New and used rags, clips, etc	Million lb.....	15.1	7.7	(D)	(D)
970099	All other materials and components, parts, containers, and supplies	.....	(X)	8.6	(X)	10.1
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	11.5	(X)	7.5
	INDUSTRY 2295, COATED FABRICS, NOT RUBBERIZED					
	Materials, containers, and supplies	.....	(X)	609.0	(X)	460.6
282137	Vinyl and vinyl copolymer resins, all forms	Million lb.....	**305.8	96.6	330.6	58.5
220234	Cotton fabrics	Mil. lin. yd....	*199.5	102.6	402.7	157.7
220241	Manmade fiber fabrics, including glass	Mil. lin. yd...	**283.9	156.8	102.3	53.7
286935	Plasticizers	Million lb.....	186.0	53.9	(6)	(6)
282107	Plastics resins, except vinyl, consumed in the form of granules, pellets, powders, liquids, etc		**121.6	40.5	(6)	(6)
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	Million lb.....	(X)	7.9	(6)	(6)
970099	All other materials, containers, and supplies	.....	(X)	107.5	(X)	6164.3
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	43.2	(X)	26.4
	INDUSTRY 2296, TIRE CORD AND FABRIC					
	Materials, containers, and supplies	.....	(X)	757.7	(X)	528.3
013101	Raw cotton	1,000 bales....	(NA)	38.7	82.5	14.4
282301	Rayon and acetate filament yarn	Million lb.....			49.7	27.7
282423	Polyester filament yarn		243.1	228.8	215.6	151.8
282411	Nylon filament yarn[7]		282.8	319.4	348.3	262.8
282407	All other manmade filament yarn, except glass[7]		14.5	29.7		
322935	Glass filament yarn and roving	Million lb.....	28.7	25.9	34.5	26.0
970099	All other materials, containers, and supplies[3]	.....	(X)	115.2	(X)	45.6

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972** – Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2297, NONWOVEN FABRICS					
	Materials, containers, and supplies		(X)	442.5	(X)	188.0
	Textile fibers:					
282303	Cellulosic (rayon and acetate)	Million lb	127.3	74.2	110.4	41.4
282403	Noncellulosic (polyester, nylon, etc.)	Million lb	122.5	67.7	71.2	29.2
228015	Textile yarns	Million lb	123.8	42.5	(NA)	2.3
261104	Wood pulp	S. tons (air-dried basis)	27.7	8.0	11.9	4.7
264926	Paper (cellulosic wadding)	Million lb	60.5	16.8	(D)	(D)
289147	Adhesives and binders (resins)	Million lb	*129.0	42.2	44.6	9.2
280010	Additives, such as fire retardants, water repellants, softeners, and antistatics	Million lb	(X)	2.6	(X)	(D)
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	Million lb	(X)	9.4	([8])	([8])
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes		25.1	8.0	([8])	([8])
970099	All other materials, containers, and supplies		(X)	132.0	(X)	[8]84.4
971000	Materials, containers, and supplies, n.s.k.[3]		(X)	39.1	(X)	13.1
	INDUSTRY 2298, CORDAGE AND TWINE					
	Materials, containers, and supplies		(X)	139.6	(X)	85.5
228102	Cotton yarns	Million lb	32.4	11.8	[4]34.4	12.0
282011	Manmade fiber yarn (rayon, acetate, nylon, etc.)	Million lb	*95.5	60.2	[4]53.9	22.9
970099	All other materials and components, parts, containers, and supplies		(X)	57.7	(X)	35.5
971000	Materials, containers, and supplies, n.s.k.[3]		(X)	9.9	(X)	15.1

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind.
(S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]For 1972, Material codes 999825, 228015, and 282104 were included with material code 970099.

[3]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[4]10 to 30 percent of quantity was estimated.

[5]For 1972, material codes 998825, 282104, and 307903 were included with material code 970099.

[6]For 1972, material codes 286935, 282107, and 307903 were included with material code 970099.

[7]Data for material codes 282411 and 282407 were collected separately for the first time in 1977; for 1972, these data were included in material code 282407.

[8]For 1972, material codes 282104 and 307903 were included with material code 970099.

Men's and Boys' Apparel

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DESCRIPTION OF INDUSTRIES

MEN'S AND BOYS' APPAREL

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2311	Men's and Boys' Suits and Coats
2321	Men's and Boys' Shirts and Nightwear
2322	Men's and Boys' Underwear
2323	Men's and Boys' Neckwear
2327	Men's and Boys' Separate Trousers
2328	Men's and Boys' Work Clothing
2329	Men's and Boys' Clothing, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2311, MEN'S AND BOYS' SUITS AND COATS

This industry comprises establishments primarily engaged in the manufacture of mens', youths', and boys' suits, coats, and overcoats. Establishments primarily engaged in the manufacture of uniforms (except athletic) are also included in this industry. Establishments primarily engaged in the manufacture of work clothing are classified in industry 2328, Men's and Boys' Work Clothing.

The total value of shipments for establishments classified in the Mens' and Boys' Suits and Coats industry amounted to $2,768 million in 1977, an increase of 15 percent from 1972. The value of shipments of products classified as primary to the industry was $2,719 million, an increase of 22 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were mens' suits for which shipments increased 42 percent, and men's overcoats and topcoats, for which shipments increased 85 percent. The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $1,574 million in 1977, was 17 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 98.7 thousand employees, a decrease of 21 percent from 1972. The leading States in employment were Pennsylvania, New York, Massachusetts, and Georgia, accounting for approximately 50 percent of the industry's 1977 employment. Data for Massachusetts have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The 1977 census obtained data on shipments of men's and boys' suits and coats only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the production of mens' and boys' suits and coats are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-23A, Apparel. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with less than 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of total value of shipments.

INDUSTRY 2321, MEN'S AND BOYS' SHIRTS AND NIGHTWEAR

This industry comprises establishments primarily engaged in the manufacture of men's and boys' shirts (including polo and sports shirts) and nightwear cut and sewn from purchased woven or knit fabric. Establishments primarily engaged in the manufacture of work shirts are classified in Industry 2328, Men's and Boys' Work Clothing.

The total value of shipments for establishments classified in the Men's and Boys' Shirts and Nightwear industry amounted to $2,935 million in 1977, an increase of 39 percent from 1972.

The value of shipments of products classified as primary to the industry was $2,836 million. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were men's and boys' knit outerwear sport shirts for which shipments increased 111 percent, and men's and boys' dress and sports shirts for which shipments increased 26 percent. The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $1,446 million in 1977, was 44 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 114.7 thousand employees, an increase of 1 percent from 1972. The leading States in employment were Alabama, North Carolina, Tennessee, and Pennsylvania, accounting for approximately 45 percent of the industry's 1977 employment. This represents a shift from 1972 when Tennessee, Pennsylvania, Alabama, and Georgia accounted for approximately 45 percent of the industry's employment.

The 1977 census obtained data on shipments of men's and boys' shirts and nightwear only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the production of men's and boys' shirts and nightwear are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-23A, Apparel. Some of these data are also shown in table 6a.

Certain products primary to industry 2321 are also primary to Industry 2253, Knitted Outerwear Products. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with less than 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of total value of shipments.

INDUSTRY 2322, MEN'S AND BOYS' UNDERWEAR

This industry comprises establishments primarily engaged in the manufacture of men's and boys' underwear cut and sewn from purchased woven or knit fabrics. Establishments primarily engaged in knitting men's and boys' underwear are classified in Industry 2254, Knit Underwear Mills.

The total value of shipments for establishments classified in the Men's and Boys' Underwear industry amounted to $420 million in 1977, an increase of 75 percent from 1972. The value of shipments of products classified as primary to the industry was $350 million. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $218 million in 1977, was 67 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 15.1 thousand employees, a decrease of 6 percent from 1972. The leading States in employment were Kentucky, South Carolina, Arizona, and North Carolina, accounting for approximately 50 percent of the industry's 1977 employment. Data for Kentucky, Arizona, and North Carolina have been withheld to avoid disclosing operations of indivisual companies. However, establishment counts and employment size ranges are provided.

The 1977 census obtained data on shipments of men's and boys' underwear only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the production of men's and boys' underwear are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-23A, Apparel. Some of these data are also shown in table 6a.

Ceratin products primary to industry 2322 are also primary to Industry 2254, Knit Underwear Mills. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with less than 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

INDUSTRY 2323, MEN'S AND BOYS' NECKWEAR

This industry comprises establishments primarily engaged in the manufacture of men's and boys' neckties, scarfs, and mufflers cut and sewn from purchased woven or knit fabrics. Knitting mills engaged in the manufacture of neckties, scarfs and mufflers are classified in Industry 2253, Knit Outerwear Mills.

The total value of shipments for establishments classified in the Men's and Boys' Neckwear industry amounted to $224 million in 1977, a decline of 24 percent from 1972. The value of shipments of products classified as primary to the industry was $211 million, a decline of 24 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $118 million in 1977, was 18 percent below value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 6.3 thousand employees, a decrease of 43 percent from 1972. The leading States in employment were New York, North Carolina, California, and Louisiana, accounting for approximately 65 percent of the industry's 1977 employment.

Establishments of small single-unit companies in this industry with less than 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained

from administrative records of other agencies or developed from industry averages. These establishments accounted for 17 percent of total value of shipments.

INDUSTRY 2327, MEN'S AND BOYS' SEPARATE TROUSERS

This industry comprises establishments primarily engaged in the manufacture of men's, youths', and boys' separate trousers and slacks. Establishments primarily engaged in the manufacture of complete suits are classified in industry 2311, and work pants and jeans in industry 2328.

The total value of shipments for establishments classified in the men's and Boys' Separate Trousers industry amounted to $1,718 miolion in 1977, a decline of 1 percent from 1972. The value of shipments of products classified as primary to the industry was $1,631 million, a decline of 8 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $846 million in 1977, was 8 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 70.9 thousand employees, a decrease of 22 percent from 1972. The leading States in employment were Texas, Georgia, New York, and Tennessee, accounting for 47 percent of the industry's 1977 employment. This represents a shift from 1972 when Texas, Georgia, Tennessee, and Pennsylvania accounted for approximately 50 percent of the industry's employment.

The 1977 census obtained data on shipments of men's and boys' separate trousers only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the production of mens' and boys separate trousers are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-23A, Apparel. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with less than 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of total value of shipments.

INDUSTRY 2328, MEN'S AND BOYS' WORK CLOTHING

This industry comprises establishments primarily engaged in the manufacture of men's, youths', and boys' work shirts, pants, jeans, and other work clothing and washable service apparel.

The total value of shipments for establishments classified in the Men's and Boys' Work Clothing industry amounted to $3,642 million in 1977, an increase of 109 percent from 1972. The value of shipments of products classified as primary to the industry was $3,394 million, an increase of 109 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $1,765 million in 1977, was 125 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 113.7 thousand employees, an increase of 27 percent from 1972. The leading States in employment were Tennessee, Texas, Mississippi, and Georgia, accounting for approximately 55 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 50 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

The 1977 census obtained data on shipments of men's and boys' work clothing only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the production of men's and boys' work clothing are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-23A, Apparel. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with less than 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

INDUSTRY 2329, MEN'S AND BOYS' CLOTHING, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of men's, youths', and boys' clothing, not elsewhere classified. Establishments primarily engaged in the manufacture of polo and sport shirts from purchased woven or knit materials are classified in industry 2321; separate trousers in industry 2327; work clothing in industry 2328; and leather and sheep lined garments in industry 2386. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

The total value of shipments for establishments classified in the Men's and Boys' Clothing, N.E.C. amounted to $1,065 million in 1977, an increase of 36 percent from 1972. The value of shipments of products classified as primary to the industry was $925 million, (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $543 million in 1977, was 38 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 43.8 thousand employees, an increase of 4 percent from 1972. The leading States in employment were New York, Pennsylvania, California, and Tennessee, accounting for approximately 35 percent of the industry's 1977 employment.

Certain products primary to industry 2329 are also primary to Industry 2253, Knit Outerwear Mills. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with less than 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 8 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

(For explanation of terms, see appendix A)

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (mil. dol.)	Production workers: Number (1,000)	Production workers: Hours (mil.)	Production workers: Wages (mil. dol.)	Value added by manufacture (mil. dol.)	Cost of materials (mil. dol.)	Value of shipments (mil. dol.)	Expenditures and assets: New capital expenditures (mil. dol.)	Expenditures and assets: Gross value of fixed assets (mil. dol.)	End-of-year inventories (mil. dol.)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2311, MEN'S AND BOYS' SUITS AND COATS																
1977 Census.	618	737	467	98.7	822.2	86.2	152.9	645.5	1 574.4	1 232.4	2 767.5	25.8	(NA)	470.5	93	92
1976 ASM....	(NA)	(NA)	(NA)	98.0	786.6	85.1	155.1	615.3	1 369.7	1 046.4	2 406.3	25.4	251.2	405.8	(NA)	(NA)
1975 ASM....	(NA)	(NA)	(NA)	98.2	737.6	84.7	146.5	564.8	1 250.1	971.0	2 262.8	15.9	(S)	389.8	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	111.8	768.3	96.8	170.2	593.3	1 344.4	1 058.9	2 387.3	27.7	(S)	454.6	(NA)	(NA)
1973 ASM....	(NA)	(NA)	(NA)	126.9	806.9	110.4	193.2	628.7	1 442.0	1 100.3	2 492.0	28.1	(S)	462.2	(NA)	(NA)
1972 Census.	721	856	570	124.8	770.3	108.3	193.7	603.1	1 342.2	1 064.5	2 396.9	22.5	(S)	399.7	93	96
1971 ASM....	(NA)	(NA)	(NA)	114.5	627.7	99.4	170.9	489.7	1 039.8	858.7	1 892.1	28.4	217.2	368.1	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	122.9	664.3	106.7	187.3	519.2	1 063.8	839.8	1 920.0	21.3	216.1	371.0	(NA)	(NA)
1969 ASM[6]...	(NA)	(NA)	(NA)	137.9	755.6	120.3	224.9	596.3	1 241.4	1 020.1	2 251.6	34.3	(S)	407.0	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	139.3	702.5	122.8	228.2	562.7	1 195.9	991.0	2 146.1	26.9	(S)	395.4	(NA)	(NA)
1967 Census.	904	1 003	649	135.9	641.7	119.9	221.3	509.1	1 047.5	862.3	1 912.1	15.7	(S)	330.9	94	97
1966 ASM....	(NA)	(NA)	(NA)	133.6	609.4	118.2	223.0	486.9	1 025.1	845.4	1 849.5	16.1	(NA)	338.9	(NA)	(NA)
1965 ASM....	(NA)	(NA)	(NA)	131.1	580.5	116.5	217.4	468.0	950.6	836.0	1 762.8	9.4	(NA)	316.0	(NA)	(NA)
1964 ASM[6]...	(NA)	(NA)	(NA)	125.1	515.7	109.9	201.6	408.5	825.8	736.1	1 560.4	10.8	129.9	289.3	(NA)	(NA)
1963 Census.	1 031	1 112	635	122.7	494.2	109.0	198.6	398.1	831.9	715.1	1 526.0	6.9	124.1	288.7	93	97
INDUSTRY 2321, MEN'S, BOYS' SHIRTS, NIGHTWEAR																
1977 Census.	667	928	679	114.7	711.3	103.0	184.1	569.9	1 445.7	1 539.5	2 934.6	25.9	(NA)	501.4	92	92
1976 ASM....	(NA)	(NA)	(NA)	111.4	655.5	100.1	182.1	516.0	1 350.4	1 560.8	2 847.0	31.9	259.0	435.8	(NA)	(NA)
1975 ASM[6]...	(NA)	(NA)	(NA)	103.0	554.1	92.8	164.1	436.1	1 084.6	1 247.7	2 344.0	19.5	245.2	357.7	(NA)	(NA)
1974 ASM[6]...	(NA)	(NA)	(NA)	115.5	576.0	104.5	185.4	461.0	1 134.3	1 258.3	2 364.9	26.5	249.1	402.0	(NA)	(NA)
1973 ASM....	(NA)	(NA)	(NA)	116.6	549.9	104.9	191.3	438.8	1 066.8	1 237.3	2 275.2	23.5	281.1	371.0	(NA)	(NA)
1972 Census.	516	731	564	113.4	514.9	102.0	186.7	413.0	1 003.8	1 118.5	2 104.3	24.1	257.9	327.4	91	83
1971 ASM....	(NA)	(NA)	(NA)	115.1	463.9	104.4	184.0	381.8	956.1	873.6	1 815.5	19.8	195.7	267.8	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	109.6	437.1	98.4	179.7	361.9	811.5	851.7	1 668.3	21.2	180.7	242.3	(NA)	(NA)
1969 ASM....	(NA)	(NA)	(NA)	109.1	412.5	97.2	180.4	338.2	782.0	842.5	1 631.4	14.6	172.8	264.6	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	111.8	407.6	100.2	184.9	341.3	733.8	790.1	1 511.2	12.5	177.1	247.9	(NA)	(NA)
1967 Census.	570	768	569	114.4	388.4	104.0	188.9	322.7	703.9	752.9	1 448.2	14.6	172.0	229.8	90	82
1966 ASM....	(NA)	(NA)	(NA)	113.0	365.7	102.8	190.7	310.0	613.2	776.6	1 348.1	14.3	(NA)	231.3	(NA)	(NA)
1965 ASM....	(NA)	(NA)	(NA)	111.8	343.1	102.6	192.6	291.9	594.8	743.2	1 285.4	11.5	(NA)	227.8	(NA)	(NA)
1964 ASM....	(NA)	(NA)	(NA)	114.3	355.7	104.1	194.4	296.4	597.2	703.6	1 294.4	7.8	121.4	209.6	(NA)	(NA)
1963 Census.	659	832	564	112.9	316.3	104.0	191.6	273.8	599.4	712.9	1 295.1	8.8	114.3	211.0	86	83
INDUSTRY 2322, MEN'S AND BOY'S UNDERWEAR																
1977 Census.	56	76	59	15.1	92.2	13.7	23.8	79.0	218.2	205.1	419.8	2.6	(NA)	55.1	87	91
1976 ASM....	(NA)	(NA)	(NA)	14.6	82.7	13.7	24.1	71.7	191.8	162.0	347.5	4.1	33.4	47.7	(NA)	(NA)
1975 ASM[6]...	(NA)	(NA)	(NA)	13.1	62.6	12.3	21.0	54.1	152.7	120.8	279.1	3.6	29.2	36.9	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	14.6	66.3	13.7	23.5	58.1	135.4	116.7	248.1	3.0	27.6	40.0	(NA)	(NA)
1973 ASM....	(NA)	(NA)	(NA)	16.0	72.1	15.2	26.7	63.0	136.2	116.5	249.2	2.7	28.9	41.7	(NA)	(NA)
1972 Census.	67	94	73	16.0	68.6	15.1	27.7	60.2	130.9	112.1	239.3	5.7	27.2	36.5	94	34
1971 ASM....	(NA)	(NA)	(NA)	13.3	60.2	12.2	21.8	54.7	147.4	105.3	248.3	2.2	36.5	34.4	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	12.9	49.0	11.9	22.0	43.7	123.4	93.9	216.5	2.1	33.8	25.6	(NA)	(NA)
1969 ASM....	(NA)	(NA)	(NA)	9.4	37.2	8.7	15.1	30.2	60.2	73.9	138.1	2.5	26.9	23.0	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	10.3	37.0	9.5	17.4	31.5	69.8	79.6	149.1	8.2	(S)	21.8	(NA)	(NA)
1967 Census.	71	87	58	13.4	44.8	12.5	23.1	38.6	82.0	104.4	180.2	5.9	(S)	27.5	94	37
1966 ASM[6]...	(NA)	(NA)	(NA)	13.8	45.4	13.2	25.8	40.4	79.8	102.9	181.6	2.2	(NA)	27.7	(NA)	(NA)
1965 ASM[6]...	(NA)	(NA)	(NA)	13.1	40.6	12.4	23.6	35.7	68.8	93.7	159.7	1.0	(NA)	24.8	(NA)	(NA)
1964 ASM[6]...	(NA)	(NA)	(NA)	12.1	35.9	11.5	22.2	31.5	58.5	83.5	144.6	1.1	12.7	18.7	(NA)	(NA)
1963 Census.	65	80	63	12.1	32.6	11.3	20.8	28.1	63.2	74.9	134.9	1.1	11.8	22.5	89	31
INDUSTRY 2323, MEN'S AND BOYS' NECKWEAR																
1977 Census.	199	207	81	6.3	57.5	5.1	8.7	33.4	117.5	108.9	223.8	2.6	(NA)	29.6	100	97
1976 ASM[5]...	(NA)	(NA)	(NA)	5.1	46.5	4.3	7.7	30.5	90.9	75.3	157.3	1.2	(S)	21.1	(NA)	(NA)
1975 ASM[5]...	(NA)	(NA)	(NA)	5.7	47.0	4.7	7.5	29.3	84.0	69.1	151.6	1.3	(S)	16.3	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	9.6	55.8	8.4	14.1	35.1	106.0	80.4	180.8	1.9	(S)	20.3	(NA)	(NA)
1973 ASM[6]...	(NA)	(NA)	(NA)	11.2	72.3	8.8	15.3	40.5	139.2	143.7	281.4	1.6	(S)	30.0	(NA)	(NA)
1972 Census.	291	299	135	11.1	70.0	8.8	15.5	38.9	143.4	154.1	294.9	4.0	(S)	28.6	99	94
1971 ASM[5]...	(NA)	(NA)	(NA)	8.5	60.2	6.4	11.4	31.1	121.2	107.9	225.3	2.1	10.1	28.7	(NA)	(NA)
1970 ASM[6]...	(NA)	(NA)	(NA)	8.8	57.1	6.9	12.4	30.1	106.0	100.4	205.0	3.9	12.8	25.6	(NA)	(NA)
1969 ASM[6]...	(NA)	(NA)	(NA)	8.9	48.6	7.1	12.3	27.9	104.5	86.1	186.5	1.5	(S)	24.4	(NA)	(NA)
1968 ASM[6]...	(NA)	(NA)	(NA)	7.7	38.6	6.4	10.8	23.6	71.6	73.2	141.6	.3	(S)	17.5	(NA)	(NA)
1967 Census.	296	297	113	7.8	37.3	6.6	11.3	23.5	69.4	75.6	144.7	.8	(S)	16.0	98	96
1966 ASM[6]...	(NA)	(NA)	(NA)	7.6	35.2	6.6	12.0	22.4	64.9	94.1	157.7	1.3	(NA)	16.0	(NA)	(NA)
1965 ASM[6]...	(NA)	(NA)	(NA)	7.6	33.5	6.3	12.3	22.1	63.2	89.3	150.4	1.2	(NA)	15.1	(NA)	(NA)
1964 ASM[6]...	(NA)	(NA)	(NA)	8.8	33.3	7.1	11.4	20.9	56.8	67.5	125.7	.1	10.8	12.1	(NA)	(NA)
1963 Census.	341	341	117	8.4	30.9	6.9	12.0	20.6	58.1	62.7	121.3	.5	10.4	13.7	98	98

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

(For explanation of terms, see appendix A)

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (mil. dol.)	Production workers: Number (1,000)	Production workers: Hours (mil.)	Production workers: Wages (mil. dol.)	Value added by manufacture (mil. dol.)	Cost of materials (mil. dol.)	Value of shipments (mil. dol.)	Expenditures and assets: New capital expenditures (mil. dol.)	Expenditures and assets: Gross value of fixed assets (mil. dol.)	End-of-year inventories (mil. dol.)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
	INDUSTRY 2327, MEN'S AND BOYS' SEPARATE TROUSERS															
1977 Census.	405	514	335	70.9	474.0	61.9	107.6	372.0	845.6	878.6	1 718.0	22.8	(NA)	281.9	84	88
1976 ASM[6]...	(NA)	(NA)	(NA)	89.8	544.9	81.2	143.5	433.8	961.6	954.6	1 896.1	28.0	230.0	317.9	(NA)	(NA)
1975 ASM....	(NA)	(NA)	(NA)	84.7	482.2	75.9	133.4	377.7	942.0	993.7	1 976.0	21.7	237.7	297.5	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	95.7	511.9	84.9	150.8	405.0	919.6	1 056.6	1 958.6	28.5	240.1	342.2	(NA)	(NA)
1973 ASM[6]...	(NA)	(NA)	(NA)	95.3	483.1	85.7	156.6	383.4	907.8	980.7	1 857.2	30.4	246.4	337.4	(NA)	(NA)
1972 Census.	463	624	428	91.3	439.3	81.8	150.0	346.8	784.9	966.1	1 745.0	22.2	240.9	286.3	87	88
1971 ASM....	(NA)	(NA)	(NA)	106.9	480.7	96.1	175.2	386.6	912.8	964.1	1 853.7	30.4	208.2	317.4	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	100.1	429.5	89.9	167.2	346.3	737.7	773.3	1 506.0	17.7	181.2	252.0	(NA)	(NA)
1969 ASM....	(NA)	(NA)	(NA)	96.1	388.9	87.3	162.8	319.5	641.6	725.0	1 367.0	18.4	165.3	234.8	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	90.4	355.4	83.0	157.2	297.6	610.8	642.3	1 236.8	18.0	(S)	217.3	(NA)	(NA)
1967 Census.	579	690	458	88.1	316.7	80.8	151.5	264.5	542.5	591.9	1 132.4	16.3	(S)	178.4	89	82
1966 ASM....	(NA)	(NA)	(NA)	91.0	295.0	82.6	154.9	245.5	482.0	574.9	1 041.6	14.4	(NA)	168.3	(NA)	(NA)
1965 ASM....	(NA)	(NA)	(NA)	84.9	274.3	78.4	146.4	228.5	444.8	555.7	990.9	13.4	(NA)	158.3	(NA)	(NA)
1964 ASM....	(NA)	(NA)	(NA)	75.8	236.0	69.6	129.4	196.3	394.0	469.9	859.2	9.2	84.4	143.0	(NA)	(NA)
1963 Census.	667	735	423	73.8	224.4	67.9	126.4	186.4	383.1	450.0	824.2	6.2	78.8	135.1	85	81
	INDUSTRY 2328, MEN'S AND BOYS' WORK CLOTHING															
1977 Census.	347	656	575	113.7	719.4	101.6	183.7	589.9	1 765.4	1 913.2	3 641.9	44.1	(NA)	477.7	89	94
1976 ASM....	(NA)	(NA)	(NA)	92.3	538.8	82.8	148.9	446.9	1 352.9	1 600.5	2 935.9	25.6	266.7	345.0	(NA)	(NA)
1975 ASM....	(NA)	(NA)	(NA)	84.1	448.5	75.0	132.0	369.4	974.1	1 288.6	2 351.3	22.2	235.7	289.8	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	85.8	414.5	77.5	138.4	349.9	952.7	1 010.7	1 938.1	35.4	215.5	284.4	(NA)	(NA)
1973 ASM....	(NA)	(NA)	(NA)	90.8	406.5	82.7	150.0	343.4	841.6	972.7	1 785.4	21.8	196.4	268.1	(NA)	(NA)
1972 Census.	297	503	435	89.6	389.0	80.6	149.0	322.6	784.8	963.2	1 738.0	24.1	169.5	236.9	85	89
1971 ASM....	(NA)	(NA)	(NA)	74.1	291.9	67.1	121.8	245.8	609.6	610.8	1 240.3	12.9	125.3	209.1	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	74.7	290.3	67.8	125.5	246.6	624.2	632.3	1 253.9	17.1	134.4	218.4	(NA)	(NA)
1969 ASM....	(NA)	(NA)	(NA)	78.5	295.3	71.1	132.8	251.5	576.0	713.4	1 293.8	12.1	137.5	223.3	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	78.9	281.9	71.4	130.6	240.2	549.3	689.1	1 229.7	11.6	133.0	226.2	(NA)	(NA)
1967 Census.	277	462	394	78.2	254.7	72.0	129.5	216.9	465.4	711.9	1 155.0	10.7	122.1	214.2	84	90
1966 ASM....	(NA)	(NA)	(NA)	73.2	218.8	66.8	122.6	184.1	403.6	655.9	1 051.7	16.4	(NA)	186.4	(NA)	(NA)
1965 ASM....	(NA)	(NA)	(NA)	71.5	212.8	65.9	121.7	181.1	400.4	616.0	999.1	8.4	(NA)	179.1	(NA)	(NA)
1964 ASM....	(NA)	(NA)	(NA)	65.2	195.3	60.9	111.4	165.6	344.0	550.6	883.6	8.0	75.9	156.3	(NA)	(NA)
1963 Census.	301	439	353	62.5	179.6	57.6	105.3	149.8	330.7	500.7	824.7	5.8	67.8	137.0	82	91
	INDUSTRY 2329, MEN'S AND BOYS' CLOTHING, N.E.C.															
1977 Census.	552	632	400	43.8	285.8	38.1	67.4	219.3	542.8	530.6	1 065.1	20.2	(NA)	201.9	83	80
1976 ASM....	(NA)	(NA)	(NA)	44.3	279.6	38.2	69.8	212.9	477.9	435.0	924.6	9.5	96.2	168.4	(NA)	(NA)
1975 ASM[5]...	(NA)	(NA)	(NA)	42.1	247.4	37.0	66.4	189.6	416.1	419.2	856.4	7.2	89.2	161.9	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	40.8	223.0	36.0	64.0	168.5	405.3	459.4	871.5	11.3	80.1	171.0	(NA)	(NA)
1973 ASM[6]...	(NA)	(NA)	(NA)	40.7	224.8	36.0	62.7	168.5	402.9	406.5	790.0	9.4	80.3	173.1	(NA)	(NA)
1972 Census.	481	537	366	41.9	210.4	37.1	66.9	161.1	393.8	404.5	783.2	10.1	75.5	150.4	90	61
1971 ASM....	(NA)	(NA)	(NA)	41.3	197.3	36.2	64.5	152.7	360.9	374.5	733.0	8.9	66.3	150.3	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	39.2	182.6	34.2	62.7	142.0	322.5	344.5	660.4	6.6	60.6	128.0	(NA)	(NA)
1969 ASM[6]...	(NA)	(NA)	(NA)	40.3	172.5	36.3	63.4	133.0	325.2	359.1	685.3	4.8	53.8	115.3	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	40.1	170.3	35.5	62.0	131.0	329.6	392.7	708.3	16.9	61.3	120.2	(NA)	(NA)
1967 Census.	517	549	367	42.6	170.6	38.1	68.2	133.4	318.1	360.4	677.7	5.1	60.5	111.4	80	61
1966 ASM[6]...	(NA)	(NA)	(NA)	41.0	153.6	36.3	68.5	115.7	277.2	358.6	623.0	6.6	(NA)	105.7	(NA)	(NA)
1965 ASM[6]...	(NA)	(NA)	(NA)	38.9	137.8	35.1	64.9	109.2	245.6	310.9	543.6	4.3	(NA)	88.5	(NA)	(NA)
1964 ASM....	(NA)	(NA)	(NA)	36.4	122.3	32.4	57.6	95.2	186.8	298.1	485.5	3.2	36.7	69.4	(NA)	(NA)
1963 Census.	529	554	365	35.9	115.7	32.3	57.1	92.8	183.2	217.2	397.6	2.8	34.5	56.9	85	50

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. [r]Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

(For explanation of terms, see appendix A)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2311, MEN'S AND BOYS' SUITS AND COATS											
1977 Census..	8 331	(NA)	87	1 773	4.22	44	74	(NA)	15 952	52	10.29
1976 ASM.....	8 026	2 563	86	1 822	3.96	43	76	10	13 976	57	8.83
1975 ASM.....	7 511	(S)	86	1 729	3.85	42	75	(S)	12 730	59	8.53
1974 ASM.....	6 872	(S)	86	1 758	3.48	44	76	(S)	12 025	57	7.89
1973 ASM.....	6 358	(S)	86	1 750	3.25	44	76	(S)	11 363	55	7.46
1972 Census..	6 172	(NA)	86	1 788	3.11	44	76	(NA)	10 754	57	6.92
1971 ASM.....	5 482	1 896	86	1 719	2.86	45	78	11	9 081	60	6.08
1970 ASM.....	5 405	1 758	86	1 755	2.77	43	78	11	8 655	62	5.67
1969 ASM.....	5 479	(S)	87	1 869	2.65	45	78	(S)	9 002	60	5.51
1968 ASM.....	5 043	(S)	88	1 858	2.46	46	78	(S)	8 585	58	5.24
1967 Census..	4 721	(S)	88	1 845	2.30	45	78	(S)	7 707	61	4.73
1966 ASM.....	4 561	(NA)	88	1 886	2.18	45	78	(NA)	7 672	59	4.59
1965 ASM.....	4 427	(NA)	88	1 866	2.11	47	80	(NA)	7 250	61	4.37
1964 ASM.....	4 122	1 038	87	1 834	2.02	47	80	8	6 601	62	4.09
1963 Census..	4 027	1 011	88	1 822	2.00	46	79	8	6 779	59	4.18
INDUSTRY 2321, MEN'S, BOYS' SHIRTS, NIGHTWEAR											
1977 Census..	6 201	(NA)	89	1 787	3.09	52	76	(NA)	12 604	49	7.85
1976 ASM.....	5 884	2 324	89	1 819	2.83	54	77	9	12 122	48	7.41
1975 ASM.....	5 379	2 380	90	1 768	2.65	53	76	10	10 530	51	6.60
1974 ASM.....	4 987	2 156	90	1 774	2.48	53	77	10	9 820	50	6.11
1973 ASM.....	4 716	2 410	90	1 823	2.29	54	78	12	9 149	51	5.57
1972 Census..	4 540	2 274	89	1 830	2.21	53	77	12	8 851	51	5.37
1971 ASM.....	4 030	1 700	90	1 762	2.07	48	73	10	8 306	48	5.19
1970 ASM.....	3 588	1 648	89	1 826	2.01	51	77	10	7 404	53	4.51
1969 ASM.....	3 780	1 583	89	1 855	1.87	51	76	10	7 167	52	4.33
1968 ASM.....	3 645	1 584	89	1 845	1.84	52	79	11	6 563	55	3.96
1967 Census..	3 395	1 503	90	1 816	1.70	51	78	11	6 152	55	3.72
1966 ASM.....	3 236	(NA)	90	1 855	1.62	57	84	(NA)	5 426	59	3.21
1965 ASM.....	3 068	(NA)	91	1 877	1.51	57	84	(NA)	5 320	57	3.08
1964 ASM.....	3 111	1 062	91	1 867	1.52	54	81	9	5 224	59	3.07
1963 Census..	2 801	1 012	92	1 842	1.42	55	79	8	5 309	52	3.12
INDUSTRY 2322, MEN'S AND BOYS' UNDERWEAR											
1977 Census..	6 112	(NA)	90	1 734	3.31	48	70	(NA)	14 467	42	9.16
1976 ASM.....	5 664	2 287	93	1 759	2.97	46	70	9	13 136	43	7.95
1975 ASM.....	4 778	2 229	93	1 707	2.57	43	65	10	11 656	40	7.27
1974 ASM.....	4 541	1 890	93	1 715	2.47	47	73	11	9 273	48	5.76
1973 ASM.....	4 506	1 806	95	1 756	2.35	46	75	11	8 512	52	5.10
1972 Census..	4 287	1 700	94	1 834	2.17	46	75	11	8 181	52	4.72
1971 ASM.....	4 526	2 744	91	1 786	2.50	42	66	14	11 082	40	6.76
1970 ASM.....	3 798	2 620	92	1 848	1.98	43	66	15	9 565	39	5.60
1969 ASM.....	3 957	2 861	92	1 735	2.00	53	80	19	6 404	61	3.98
1968 ASM.....	3 592	(S)	92	1 831	1.81	53	78	(S)	6 776	53	4.01
1967 Census..	3 343	(S)	93	1 848	1.67	57	82	(S)	6 119	54	3.54
1966 ASM.....	3 289	(NA)	95	1 954	1.56	56	81	(NA)	5 782	56	3.09
1965 ASM.....	3 099	(NA)	94	1 903	1.51	58	84	(NA)	5 251	59	2.91
1964 ASM.....	2 966	1 049	95	1 930	1.41	57	82	8	4 834	61	2.63
1963 Census..	2 694	975	93	1 840	1.35	55	79	8	5 223	51	3.03
INDUSTRY 2323, MEN'S AND BOYS' NECKWEAR											
1977 Census..	9 062	(NA)	81	1 683	3.85	48	74	(NA)	18 527	48	13.58
1976 ASM.....	9 117	(S)	84	1 790	3.96	47	77	(S)	17 823	51	11.80
1975 ASM.....	8 245	(S)	82	1 595	3.90	45	76	(S)	14 736	55	11.20
1974 ASM.....	5 812	(S)	87	1 678	2.48	44	75	(S)	11 041	52	7.51
1973 ASM.....	6 455	(S)	78	1 738	2.64	51	76	(S)	12 428	51	9.09
1972 Census..	6 306	(S)	79	1 761	2.50	52	75	(S)	12 918	48	9.25
1971 ASM.....	7 082	1 188	75	1 781	2.72	47	74	4	14 258	49	10.63
1970 ASM.....	6 488	1 454	78	1 797	2.42	48	76	6	12 045	53	8.54
1969 ASM.....	5 460	(S)	79	1 732	2.26	46	72	(S)	11 741	46	8.49
1968 ASM.....	5 012	(S)	83	1 687	2.18	51	78	(S)	9 298	53	6.62
1967 Census..	4,782	(S)	84	1 712	2.07	52	78	(S)	8 897	53	6.14
1966 ASM.....	4 631	(NA)	84	1 875	1.86	59	81	(NA)	8 539	54	5.40
1965 ASM.....	4 407	(NA)	82	1 952	1.79	59	81	(NA)	8 315	53	5.13
1964 ASM.....	3 784	1 227	80	1 605	1.83	53	80	8	6 454	58	4.98
1963 Census..	3 678	1 238	82	1 739	1.71	51	77	8	6 916	53	4.84

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

(For explanation of terms, see appendix A)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2327, MEN'S AND BOYS' SEPARATE TROUSERS										
1977 Census..	6 680	(NA)	87	1 739	3.45	51	78	(NA)	11 919	56	7.85
1976 ASM.....	6 067	2 561	90	1 767	3.02	50	79	12	10 708	56	6.70
1975 ASM.....	5 693	2 806	89	1 757	2.83	50	74	12	11 121	51	7.06
1974 ASM.....	5 349	2 508	88	1 776	2.68	53	80	12	9 609	55	6.09
1973 ASM.....	5 069	2 585	89	1 827	2.44	52	78	13	9 525	53	5.79
1972 Census..	4 811	(NA)	89	1 833	2.31	55	80	(NA)	8 596	55	5.23
1971 ASM.....	4 496	1 947	89	1 823	2.20	52	77	11	8 538	52	5.21
1970 ASM.....	4 290	1 810	89	1 859	2.07	51	79	12	7 369	58	4.41
1969 ASM.....	4 046	1 720	90	1 864	1.96	53	81	12	6 676	60	3.94
1968 ASM.....	3 931	(S)	91	1 893	1.89	51	80	(S)	6 756	58	3.88
1967 Census..	3 594	(S)	91	1 875	1.74	52	80	(S)	6 157	58	3.58
1966 ASM.....	3 241	(NA)	90	1 875	1.58	55	83	(NA)	5 296	61	3.11
1965 ASM.....	3 230	(NA)	92	1 867	1.56	56	83	(NA)	5 239	61	3.03
1964 ASM.....	3 113	1 113	91	1 859	1.51	54	82	9	5 197	59	3.04
1963 Census..	3 040	1 067	92	1 861	1.47	54	81	9	5 191	58	3.03
	INDUSTRY 2328, MEN'S AND BOYS' WORK CLOTHING										
1977 Census..	6 323	(NA)	89	1 808	3.20	52	71	(NA)	15 836	39	9.79
1976 ASM.....	5 837	2 889	89	1 798	3.00	54	72	9	14 657	39	9.08
1975 ASM.....	5 332	2 802	89	1 760	2.79	54	73	10	11 582	46	7.37
1974 ASM.....	4 831	2 511	90	1 785	2.52	52	73	11	11 103	43	6.88
1973 ASM.....	4 476	2 162	91	1 813	2.28	54	77	11	9 268	48	5.61
1972 Census..	4 341	1 891	89	1 848	2.16	55	77	9	8 758	49	5.26
1971 ASM.....	3 939	1 690	90	1 815	2.01	49	72	10	8 226	47	5.00
1970 ASM.....	3 886	1 799	90	1 851	1.96	50	73	10	8 356	46	4.97
1969 ASM.....	3 761	1 751	90	1 867	1.89	55	77	10	7 337	51	4.33
1968 ASM.....	3 572	1 685	90	1 829	1.83	56	78	10	6 961	51	4.20
1967 Census..	3 257	1 561	92	1 798	1.67	61	83	10	5 951	54	3.59
1966 ASM.....	2 989	(NA)	91	1 835	1.50	62	83	(NA)	5 513	54	3.29
1965 ASM.....	2 976	(NA)	92	1 846	1.48	61	82	(NA)	5 600	53	3.29
1964 ASM.....	2 995	1 164	93	1 829	1.48	62	84	8	5 276	56	3.08
1963 Census..	2 873	924	92	1 828	1.42	60	82	7	5 291	54	3.14
	INDUSTRY 2329, MEN'S AND BOYS' CLOTHING, N.E.C.										
1977 Census..	6 505	(NA)	87	1 766	3.25	50	77	(NA)	12 154	53	7.89
1976 ASM.....	6 311	2 171	86	1 827	3.05	47	77	10	10 787	58	6.84
1975 ASM.....	5 876	2 118	87	1 794	2.85	48	77	10	9 883	59	6.26
1974 ASM.....	5 465	1 963	88	1 777	2.63	52	78	9	9 933	55	6.33
1973 ASM.....	5 523	1 972	88	1 741	2.68	51	79	10	9 899	55	6.42
1972 Census..	5 021	1 801	88	1 803	2.40	51	78	9	9 398	53	5.88
1971 ASM.....	4 777	1 605	87	1 781	2.36	51	78	9	8 738	54	5.59
1970 ASM.....	4 658	1 545	87	1 833	2.26	52	79	9	8 227	56	5.14
1969 ASM.....	4 280	1 334	90	1 746	2.09	52	77	7	8 069	53	5.12
1968 ASM.....	4 246	1 528	88	1 746	2.11	55	79	8	8 219	51	5.31
1967 Census..	4 004	1 420	89	1 790	1.95	53	78	8	7 467	53	4.66
1966 ASM.....	3 146	(NA)	88	1 885	1.68	57	82	(NA)	6 760	55	4.04
1965 ASM.....	3 542	(NA)	90	1 849	1.68	57	82	(NA)	6 313	56	3.78
1964 ASM.....	3 359	1 008	89	1 777	1.65	61	86	7	5 131	65	3.24
1963 Census..	3 222	961	89	1 767	1.62	54	83	8	5 103	63	3.20

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 2311, MEN'S AND BOYS' SUITS AND COATS														
United States	-	**737**	**467**	**98.7**	**822.2**	**86.2**	**152.9**	**645.5**	**1 574.4**	**1 232.4**	**2 767.5**	**25.8**	**124.8**	**1 342.1**
New England Division:														
Maine	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts	-	62	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.5	80.1
Rhode Island	E7	3	3	0.3	1.8	0.2	0.4	1.3	2.6	3.1	5.8	(D)	BB	(D)
Connecticut	-	4	3	0.3	2.3	0.2	0.3	1.4	3.2	3.9	7.1	(D)	BB	(D)
Middle Atlantic Division:														
New York	E1	174	82	15.4	143.5	13.3	23.9	113.1	259.1	217.4	475.6	4.2	23.5	286.3
New Jersey	-	41	28	4.8	39.4	4.3	7.8	33.4	68.3	40.9	107.0	(D)	7.2	62.9
Pennsylvania	-	139	103	22.2	196.8	19.4	34.7	155.4	348.4	297.4	636.5	5.3	27.8	294.7
East North Central Division:														
Ohio	-	15	11	4.2	31.4	3.6	5.7	26.1	123.3	62.3	180.1	(D)	5.0	83.2
Indiana	-	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	6.0
Illinois	-	20	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.2	76.9
Wisconsin	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West North Central Division:														
Minnesota	-	12	10	0.7	5.9	0.6	1.0	4.1	10.1	9.2	19.9	(D)	CC	(D)
Missouri	-	12	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	22.7
Nebraska	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Atlantic Division:														
Maryland	-	33	22	4.0	35.0	3.4	6.0	26.5	55.1	88.6	142.9	(D)	6.3	77.7
Virginia	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.8	28.0
West Virginia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
North Carolina	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
South Carolina	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	7.2
Georgia	-	27	26	6.8	49.3	6.1	11.2	39.0	99.9	91.2	186.2	(D)	FF	(D)
Florida	-	14	8	1.0	7.0	0.9	1.3	6.3	13.2	14.5	27.6	(D)	CC	(D)
East South Central Division:														
Kentucky	-	13	13	4.0	30.7	3.7	6.6	27.6	59.1	23.7	83.0	(D)	4.5	45.9
Tennessee	E1	21	17	5.3	36.8	4.8	7.9	30.5	79.7	36.8	112.8	(D)	4.4	39.6
Alabama	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Mississippi	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West South Central Division:														
Arkansas	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Louisiana	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	13.3
Oklahoma	-	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Texas	-	18	12	2.5	15.3	2.2	4.1	11.5	28.8	11.5	39.9	(D)	1.5	11.6
Mountain Division:														
New Mexico	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California	-	48	13	2.2	17.6	1.8	3.3	12.8	35.8	34.7	72.2	(D)	FF	(D)
Industry 2311-11, Manufacturers														
United States	**(NA)**	**409**	**218**	**50.6**	**526.3**	**52.5**	**92.8**	**413.1**	**1 070.5**	**739.8**	**1 775.3**	**14.0**	**60.4**	**744.6**
New England Division:														
Maine	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts	-	33	14	4.9	44.7	4.2	7.8	34.7	106.4	57.4	157.9	0.9	FF	(D)
Connecticut	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	E2	104	43	11.3	108.2	9.8	17.7	86.9	190.0	132.0	323.4	3.3	11.0	144.0
New Jersey	-	19	12	3.0	26.8	2.6	4.8	22.1	50.9	37.4	85.6	0.4	3.8	36.9
Pennsylvania	-	63	36	11.8	104.4	10.6	18.7	86.2	195.3	145.3	334.4	2.9	12.0	148.2
East North Central Division:														
Ohio	-	11	8	3.5	25.6	2.8	4.4	20.7	117.1	61.7	172.8	0.7	3.5	70.9
Indiana	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Illinois	-	13	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.8	64.9
Wisconsin	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Division:														
Minnesota	-	10	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Missouri	-	7	5	0.8	5.2	0.7	1.1	3.9	8.4	6.3	14.5	(D)	1.1	15.4
Nebraska	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Maryland	E1	18	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	35.8
Virginia	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
North Carolina	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Carolina	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	-	11	10	3.1	21.0	2.7	4.9	16.0	42.8	32.0	70.6	1.1	2.8	26.4
East South Central Division:														
Kentucky	-	6	6	2.7	23.3	2.5	4.4	21.0	49.0	22.5	71.8	(D)	3.4	38.5
Tennessee	E1	14	10	4.1	29.3	3.7	5.8	23.8	69.4	35.0	100.7	0.7	FF	(D)
West South Central Division:														
Arkansas	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Texas	-	7	4	0.6	3.7	0.5	0.9	2.5	6.7	3.7	10.1	0.1	CC	(D)
Mountain Division:														
New Mexico	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California	-	34	8	1.4	12.3	1.2	2.1	8.8	20.8	14.1	34.3	0.2	EE	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2311-22, Jobbers													
United States	(NA)	83	48	5.3	63.3	3.2	6.3	27.6	164.5	432.7	594.2	4.3	7.7	180.5
New England Division:													
Massachusetts	-	9	7	0.5	5.2	0.2	0.5	1.3	20.5	50.9	69.8	(D)	CC	(D)
Middle Atlantic Division:													
New York	E1	33	13	0.7	8.8	0.4	0.7	2.8	23.0	78.2	99.1	0.5	3.2	65.6
Pennsylvania	-	18	15	2.9	33.7	1.9	3.6	17.7	70.5	142.2	211.3	1.1	EE	(D)
South Atlantic Division:														
Maryland	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Georgia	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Industry 2311-33, Independent Contractors														
United States	(NA)	171	129	18.0	126.2	16.7	28.9	110.3	186.9	36.6	222.5	3.4	28.0	204.9
New England Division:														
Massachusetts	-	15	13	1.2	9.7	1.1	2.0	8.6	12.8	1.6	14.5	0.1	EE	(D)
Middle Atlantic Division:														
New York	E1	32	22	2.6	19.8	2.4	4.2	17.2	37.7	6.3	43.9	0.4	5.8	40.3
New Jersey	E2	14	10	1.2	8.0	1.1	2.0	7.3	11.4	2.1	13.9	0.1	2.6	18.8
Pennsylvania	-	43	37	5.0	37.2	4.5	7.8	31.7	51.8	5.7	56.9	0.7	7.2	57.8
East North Central Division:														
Ohio	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Illinois	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Division:														
Missouri	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Maryland	E1	7	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	12.8
South Carolina	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	-	8	8	2.7	19.6	2.6	4.7	18.4	30.0	10.2	39.7	0.8	3.1	25.4
Florida	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
East South Central Division:														
Tennessee	-	4	4	0.4	2.3	0.3	0.6	2.1	2.9	0.6	3.5	(Z)	BB	(D)
Mississippi	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West South Central Division:														
Texas	E1	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
California	E1	10	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Industry 2311-44, Multiplant Company Contractors														
United States	(NA)	74	72	14.8	106.4	13.7	24.9	94.4	152.5	23.3	175.4	4.1	28.7	212.3
New England Division:														
Massachusetts	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Middle Atlantic Division:														
New York	-	5	4	0.8	6.7	0.8	1.3	6.1	8.4	0.9	9.3	(D)	3.8	36.4
New Jersey	-	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pennsylvania	-	15	15	2.6	21.6	2.4	4.5	19.7	30.8	4.2	33.9	0.7	FF	(D)
East North Central Division:														
Ohio	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	10.4
Indiana	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Illinois	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West North Central Division:														
Missouri	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Kansas	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Maryland	-	3	3	0.6	4.9	0.6	1.0	4.6	6.3	0.4	6.7	(D)	EE	(D)
Georgia	-	5	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	6.7
Florida	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Division:														
Kentucky	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	5.1
Tennessee	-	3	3	0.9	5.1	0.8	1.5	4.6	7.4	1.2	8.5	(D)	1.2	5.2
Alabama	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Mississippi	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Texas	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2321, MEN'S AND BOYS' SHIRTS AND NIGHTWEAR														
United States	-	**928**	**679**	**114.7**	**711.3**	**103.0**	**184.1**	**569.9**	**1 445.7**	**1 539.5**	**2 934.6**	**25.9**	**113.6**	**1 008.1**
New England Division:														
Maine	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Vermont	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts	-	5	4	0.7	4.4	0.7	1.3	4.0	7.0	3.4	10.5	(D)	CC	(D)
Rhode Island	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Connecticut	-	10	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Middle Atlantic Division:														
New York	-	156	69	6.1	49.5	5.0	9.0	29.2	161.8	333.6	463.2	1.8	6.9	107.5
New Jersey	E1	19	11	1.5	8.8	1.4	2.4	7.4	14.2	16.2	30.3	(D)	1.6	29.0
Pennsylvania	-	76	67	10.4	69.7	9.5	16.2	59.1	126.2	122.1	245.8	1.8	12.0	105.6
East North Central Division:														
Ohio	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Indiana	E2	6	5	1.2	7.1	1.1	2.2	6.0	10.9	14.8	25.3	(D)	1.2	8.9
Illinois	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Michigan	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Wisconsin	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Division:														
Minnesota	-	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	10.3
Missouri	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Kansas	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Maryland	E2	13	11	1.4	9.0	1.3	2.2	7.5	19.9	15.4	35.2	0.5	1.9	12.9
Virginia	-	28	25	5.1	32.3	4.8	8.8	27.1	67.1	41.0	104.8	1.8	FF	(D)
West Virginia	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
North Carolina	-	85	71	13.6	77.1	12.2	22.1	61.6	122.9	131.9	251.5	2.0	11.4	80.8
South Carolina	-	37	34	7.9	46.3	7.2	13.0	39.6	79.7	60.6	149.1	(D)	7.7	79.0
Georgia	-	42	40	9.2	55.8	8.5	15.6	48.3	109.3	103.0	212.5	(D)	11.5	93.8
Florida	E1	39	23	2.1	13.0	1.9	3.4	10.0	26.1	29.3	55.2	0.4	1.3	13.2
East South Central Division:														
Kentucky	-	12	10	2.8	18.3	2.6	4.8	15.0	39.0	29.0	68.0	(D)	2.9	22.2
Tennessee	-	59	54	12.8	74.2	11.4	20.0	60.6	143.3	154.2	290.1	(D)	14.9	115.5
Alabama	-	62	60	15.0	87.7	14.2	25.0	77.4	166.2	166.7	320.6	3.4	11.6	92.7
Mississippi	-	29	26	4.9	25.7	4.5	7.8	22.1	40.8	27.1	67.2	(D)	6.1	38.7
West South Central Division:														
Arkansas	-	15	14	3.6	23.7	3.2	6.0	18.7	50.2	14.9	64.9	0.4	4.6	33.7
Louisiana	-	13	13	1.7	8.5	1.3	2.5	6.2	16.6	14.7	31.1	(D)	0.9	4.3
Texas	-	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	2.2
Mountain Division:														
Colorado	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arizona	-	6	6	0.7	3.9	0.6	1.2	3.4	7.2	11.5	18.5	(D)	BB	(D)
Utah	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Oregon	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
California	-	130	76	5.5	41.3	4.3	8.1	25.5	98.8	134.2	241.1	1.1	4.6	55.4
Hawaii	E2	19	7	0.5	3.1	0.4	0.8	2.1	5.3	5.3	10.6	(D)	BB	(D)
Industry 2321-11, Manufacturers														
United States	**(NA)**	**469**	**291**	**58.4**	**366.0**	**52.9**	**95.1**	**303.3**	**793.0**	**747.7**	**1 531.3**	**16.8**	**46.3**	**464.9**
New England Division:														
Maine	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Rhode Island	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	E2	82	22	2.9	19.4	2.7	4.7	16.4	39.6	35.0	75.8	0.9	FF	(D)
New Jersey	E2	8	5	0.8	4.9	0.7	1.2	3.8	8.9	9.6	18.5	0.2	CC	(D)
Pennsylvania	-	31	27	5.2	35.2	4.7	8.0	28.5	71.4	71.6	141.4	1.0	6.1	65.6
East North Central Division:														
Ohio	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Indiana	E2	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Michigan	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Wisconsin	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:														
Minnesota	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Missouri	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
Maryland	-	7	6	0.9	5.8	0.8	1.4	4.6	16.5	9.6	26.0	(D)	EE	(D)
Virginia	-	17	14	3.2	21.1	3.0	5.3	17.4	51.7	37.8	86.1	1.3	AA	(D)
North Carolina	-	37	28	5.7	32.8	5.0	9.0	26.0	58.8	57.1	113.0	0.8	2.9	23.9
South Carolina	-	18	15	4.3	26.8	3.8	6.9	22.9	54.5	57.6	120.4	1.1	FF	(D)
Georgia	-	14	13	3.7	23.4	3.5	6.3	21.2	53.8	46.6	101.4	1.2	FF	(D)
Florida	E1	22	11	1.4	8.7	1.3	2.3	6.6	18.2	23.8	41.9	0.3	0.6	6.8
East South Central Division:														
Kentucky	-	9	7	2.3	15.7	2.2	4.0	12.6	35.7	28.4	64.1	(D)	1.4	14.1
Tennessee	-	24	20	5.8	34.5	5.2	9.3	28.8	73.7	61.7	136.4	1.6	7.4	59.6
Alabama	-	34	32	10.0	60.8	9.5	17.0	54.6	121.4	139.6	249.8	3.0	6.8	61.1
Mississippi	-	10	8	1.8	10.7	1.6	3.0	8.7	22.9	24.4	46.5	1.0	2.2	20.2

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2321-11, Manufacturers—Con.													
West South Central Division:													
Arkansas	E1	7	6	1.0	5.6	0.9	1.7	5.2	25.8	13.9	39.2	0.4	CC	(D)
Louisiana	-	9	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Texas	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mountain Division:														
Colorado	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arizona	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Pacific Division:														
California	E3	72	30	2.4	16.4	2.0	3.8	11.4	32.3	36.0	68.8	0.6	EE	(D)
Hawaii	E3	14	5	0.4	2.5	0.4	0.6	1.7	4.2	3.0	7.2	0.1	0.2	1.5
Industry 2321-22, Jobbers														
United States	(NA)	**108**	**71**	**7.4**	**74.5**	**4.5**	**8.4**	**29.9**	**287.2**	**734.6**	**979.9**	**2.7**	**10.8**	**241.8**
New England Division:														
Connecticut	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Middle Atlantic Division:														
New York	-	47	30	1.6	20.8	0.8	1.5	4.3	109.9	296.5	373.1	0.8	EE	(D)
New Jersey	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pennsylvania	E1	7	6	0.8	6.0	0.7	1.0	4.7	13.0	41.3	53.7	0.1	0.7	12.1
South Atlantic Division:														
Maryland	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	21.0
Georgia	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
East South Central Division:														
Tennessee	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Mountain Division:														
Arizona	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	-	19	12	1.2	13.9	0.6	1.2	4.6	49.4	95.0	152.1	0.3	EE	(D)
Industry 2321-33, Contractors														
United States	(NA)	**192**	**159**	**16.0**	**88.2**	**14.7**	**25.6**	**74.9**	**119.0**	**19.8**	**138.6**	**2.4**	**17.5**	**89.3**
New England Division:														
Connecticut	E4	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Middle Atlantic Division:														
New York	-	25	16	1.3	7.4	1.2	2.2	6.7	9.7	1.7	11.4	0.1	1.5	8.4
New Jersey	E1	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pennsylvania	-	26	22	1.9	12.3	1.8	3.2	10.5	17.3	3.7	21.0	0.5	1.9	12.3
South Atlantic Division:														
Virginia	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West Virginia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina	E1	20	17	2.7	14.2	2.4	4.2	12.0	18.2	2.3	20.5	0.3	1.8	8.6
South Carolina	E3	6	6	0.8	4.1	0.7	1.3	3.0	5.9	0.4	6.2	0.3	0.5	2.4
Georgia	-	9	8	1.2	6.1	1.1	2.0	5.4	8.5	1.3	9.8	0.1	2.1	11.0
Florida	E3	12	10	0.5	3.0	0.5	0.9	2.7	4.7	0.6	5.3	(Z)	0.6	2.8
East South Central Division:														
Tennessee	-	11	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Alabama	-	9	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Mississippi	-	6	5	0.8	4.1	0.7	1.2	3.6	4.6	0.9	5.4	(D)	1.1	5.2
West South Central Division:														
Louisiana	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Mountain Division:														
Arizona	E5	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Utah	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	-	37	32	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Industry 2321-44, Multiplant Company Contractors														
United States	(NA)	**159**	**158**	**32.9**	**182.7**	**30.9**	**55.0**	**161.7**	**246.6**	**37.4**	**284.8**	**4.0**	**39.1**	**212.1**
New England Division:														
Vermont	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Connecticut	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pennsylvania	-	12	12	2.4	16.3	2.3	4.0	15.4	24.4	5.6	29.7	0.1	3.2	15.6
East North Central Division:														
Illinois	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2321-44, Multiplant Company Contractors—Con.														
West North Central Division:														
Minnesota	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Missouri	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Kansas	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Maryland	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.5
Virginia	-	6	6	1.5	5.8	1.4	2.9	8.0	11.3	1.0	12.4	(D)	3.0	16.4
North Carolina	-	24	24	4.9	25.3	4.7	8.9	23.3	29.7	5.0	35.1	0.7	5.3	27.2
South Carolina	E1	13	13	2.9	15.5	2.7	4.8	13.7	19.4	2.6	22.6	0.3	3.6	21.4
Georgia	-	15	15	3.9	22.1	3.6	6.7	19.4	28.4	5.8	34.3	1.1	4.3	23.5
East South Central Division:														
Kentucky	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Tennessee	-	22	22	4.9	24.5	4.5	7.8	22.2	35.5	7.4	42.0	0.7	4.5	22.3
Alabama	-	17	17	3.2	16.9	3.0	5.1	14.7	26.0	2.4	28.6	(D)	FF	(D)
Mississippi	-	13	13	2.3	10.9	2.2	3.6	9.9	13.3	1.9	15.3	0.2	2.7	13.2
West South Central Division:														
Arkansas	-	8	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Louisiana	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
INDUSTRY 2322, MEN'S AND BOYS' UNDERWEAR														
United States	-	**76**	**59**	**15.1**	**92.2**	**13.7**	**23.8**	**79.0**	**218.2**	**205.1**	**419.8**	**2.6**	**15.9**	**130.9**
Middle Atlantic Division:														
New York	E1	12	4	0.3	1.9	0.2	0.4	1.4	3.9	5.0	9.8	(Z)	CC	(D)
Pennsylvania	-	10	7	0.8	5.0	0.7	1.2	3.6	6.0	10.3	16.6	(D)	1.0	7.0
East North Central Division:														
Illinois	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Wisconsin	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Virginia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina	-	8	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	25.6
South Carolina	-	6	6	1.4	8.6	1.3	2.3	7.0	14.4	16.0	31.9	(D)	2.3	11.4
Georgia	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East South Central Division:														
Kentucky	-	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Tennessee	E1	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Alabama	E1	3	3	0.6	3.6	0.6	1.1	3.3	5.9	8.2	13.5	(D)	BB	(D)
Mississippi	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Louisiana	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oklahoma	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Mountain Division:														
New Mexico	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arizona	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
INDUSTRY 2323, MEN'S AND BOYS' NECKWEAR														
United States	**E3**	**207**	**81**	**6.3**	**57.5**	**5.1**	**8.7**	**33.4**	**117.5**	**108.9**	**223.8**	**2.6**	**11.1**	**143.4**
New England Division:														
Massachusetts	E7	10	4	0.2	1.5	0.2	0.3	0.9	2.8	2.9	5.7	(D)	0.4	4.5
Connecticut	E6	9	6	0.3	2.6	0.3	0.4	2.0	6.1	4.5	10.5	(Z)	BB	(D)
Middle Atlantic Division:														
New York	E3	87	35	2.3	22.8	1.9	3.4	14.5	45.8	43.8	87.9	1.6	FF	(D)
New Jersey	E1	13	4	0.3	2.1	0.2	0.3	1.2	3.5	3.4	7.0	(D)	CC	(D)
East North Central Division:														
Ohio	E0	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
Maryland	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
North Carolina	-	9	5	0.7	4.9	0.7	1.1	3.8	11.5	8.6	19.7	(Z)	1.0	6.2
West South Central Division:														
Louisiana	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pacific Division:														
California	-	20	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2327, MEN'S AND BOYS' SEPARATE TROUSERS														
United States	-	**514**	**335**	**70.9**	**474.0**	**61.9**	**107.6**	**372.0**	**845.6**	**878.6**	**1 718.0**	**22.8**	**91.4**	**785.0**
New England Division:														
Massachusetts	E1	16	8	0.9	6.8	0.8	1.4	5.1	15.5	12.2	27.2	(D)	CC	(D)
Middle Atlantic Division:														
New York	E1	103	33	7.8	53.3	5.5	8.9	34.7	108.3	159.0	269.6	3.5	2.8	61.8
New Jersey	E2	13	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.8
Pennsylvania	-	53	42	4.8	35.9	4.5	7.5	30.8	49.1	32.9	80.7	0.6	6.8	57.0
East North Central Division:														
Ohio	-	8	6	0.8	4.3	0.8	1.1	3.3	8.5	5.4	13.7	0.1	1.2	14.3
Indiana	E1	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West North Central Division:														
Missouri	-	18	13	2.3	15.0	2.0	3.5	12.4	21.6	14.2	36.6	0.8	FF	(D)
South Atlantic Division:														
Maryland	-	14	8	0.5	3.1	0.4	0.8	2.2	6.8	8.9	15.4	0.1	1.3	15.4
Virginia	-	9	7	1.9	11.1	1.8	3.0	9.9	26.9	7.9	35.6	(D)	2.8	17.7
West Virginia	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
North Carolina	-	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	18.4
Georgia	-	58	56	9.5	60.0	8.5	15.0	46.1	107.1	105.7	210.4	(D)	10.9	81.1
Florida	-	13	8	1.0	6.2	0.8	1.4	4.7	9.7	9.3	19.0	(D)	CC	(D)
East South Central Division:														
Kentucky	-	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Tennessee	-	21	15	5.8	42.7	5.4	9.9	38.3	54.7	60.8	114.9	2.3	8.5	84.5
Alabama	-	27	27	5.4	35.5	4.9	8.7	30.5	56.5	24.2	79.2	1.4	4.1	26.8
Mississippi	-	23	17	4.5	28.2	4.2	7.1	24.6	46.9	62.1	111.1	(D)	FF	(D)
West South Central Division:														
Arkansas	-	12	12	3.2	19.9	3.0	5.5	18.4	51.0	32.3	82.2	0.3	FF	(D)
Louisiana	-	13	11	2.7	16.2	2.4	4.5	13.9	25.8	16.3	41.2	(D)	EE	(D)
Oklahoma	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	10.2
Texas	-	25	19	10.6	66.8	9.0	15.4	47.7	136.0	220.1	346.2	1.2	18.1	142.7
Mountain Division:														
Arizona	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Utah	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
California	E1	41	15	2.0	13.2	1.6	2.8	9.3	26.2	16.7	42.2	0.3	EE	(D)
Industry 2327-11, Manufacturers														
United States	**(NA)**	**244**	**137**	**40.8**	**264.3**	**34.8**	**58.9**	**203.5**	**463.4**	**463.0**	**942.6**	**11.2**	**35.1**	**360.2**
New England Division:														
Massachusetts	E1	11	6	0.7	5.6	0.6	1.1	4.1	12.2	10.6	22.5	0.3	BB	(D)
Middle Atlantic Division:														
New York	E1	54	13	6.2	37.8	4.2	6.9	25.8	68.2	76.8	145.5	2.0	0.8	7.9
Pennsylvania	-	19	13	1.6	12.8	1.5	2.4	10.6	19.0	22.2	39.9	0.2	1.6	17.8
East North Central Division:														
Ohio	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Indiana	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Division:														
Missouri	E1	6	5	0.7	3.9	0.6	1.1	3.4	7.0	7.8	15.6	(D)	EE	(D)
South Atlantic Division:														
Virginia	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	8.4
West Virginia	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
North Carolina	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Georgia	-	19	17	3.5	21.1	3.2	5.5	16.7	30.3	28.7	61.2	1.0	2.9	23.2
Florida	-	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
East South Central Division:														
Kentucky	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Tennessee	-	11	10	4.1	26.7	3.8	7.0	23.7	43.5	56.3	99.0	1.7	5.4	65.6
Alabama	-	9	9	2.0	14.0	1.8	3.1	11.6	27.0	18.5	44.3	0.6	1.7	13.7
Mississippi	-	7	4	1.4	9.4	1.2	2.1	7.2	17.0	23.0	41.3	0.7	FF	(D)
West South Central Division:														
Arkansas	-	8	8	2.4	15.1	2.3	4.2	14.1	44.3	31.2	74.5	0.3	EE	(D)
Louisiana	-	4	4	1.3	7.7	1.1	1.9	6.1	15.0	12.4	26.5	(D)	(NA)	(NA)
Oklahoma	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas	-	17	11	8.1	49.8	6.8	10.7	34.7	68.5	96.3	171.5	1.1	FF	(D)
Mountain Division:														
Arizona	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Utah	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
California	-	25	7	1.5	10.4	1.2	2.2	7.2	21.6	13.9	34.8	0.2	EE	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2327-22, Jobbers													
United States	(NA)	56	26	3.8	42.0	2.5	5.7	19.7	167.9	369.3	516.3	5.6	8.4	154.3
Middle Atlantic Division:													
New York	-	27	7	0.6	10.3	0.3	0.8	4.5	33.1	81.0	115.7	(D)	CC	(D)
South Atlantic Division:													
Georgia	-	4	4	0.6	6.6	0.3	0.6	2.0	32.2	66.6	94.6	(D)	CC	(D)
East South Central Division:													
Mississippi	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West South Central Division:													
Texas	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Industry 2327-33, Independent Contractors													
United States	(NA)	118	87	9.0	54.1	8.3	13.7	46.5	75.7	15.0	90.9	1.9	15.1	85.0
Middle Atlantic Division:													
New York	E2	18	9	0.6	3.2	0.5	0.9	2.8	4.3	0.7	5.1	0.1	EE	(D)
New Jersey	-	7	5	0.3	1.7	0.3	0.4	1.5	3.0	0.4	3.3	(Z)	BB	(D)
Pennsylvania	-	21	17	1.6	11.4	1.5	2.5	9.9	15.2	2.2	17.3	0.1	2.5	15.5
East North Central Division:														
Ohio	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Virginia	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
North Carolina	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	-	15	15	1.9	11.2	1.7	2.7	9.0	16.2	4.4	20.6	0.4	FF	(D)
East South Central Division:														
Alabama	E1	7	7	0.9	4.8	0.8	1.2	3.7	6.8	0.9	7.9	(D)	0.5	2.3
Mississippi	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West South Central Division:														
Arkansas	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Louisiana	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Texas	E4	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Pacific Division:														
California	E2	11	6	0.3	1.9	0.3	0.5	1.7	2.8	0.8	3.6	0.1	BB	(D)
Industry 2327-44, Multiplant Company Contractors														
United States	(NA)	96	86	17.3	113.6	16.3	29.2	102.2	138.6	31.3	188.2	4.2	32.8	185.4
Middle Atlantic Division:														
New York	E2	4	4	0.4	2.0	0.4	0.3	1.6	2.6	0.5	3.2	(Z)	(NA)	(NA)
Pennsylvania	-	10	9	1.5	10.9	1.4	2.5	10.0	14.5	3.4	17.9	0.3	2.4	16.8
West North Central Division:														
Missouri	-	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
South Atlantic Division:														
Maryland	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	1.8
Virginia	E1	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Georgia	-	20	20	3.5	21.1	3.3	6.2	18.3	28.4	6.0	34.0	0.8	4.7	25.4
East South Central Division:														
Kentucky	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Tennessee	E2	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	8.2
Alabama	-	11	11	2.4	16.8	2.3	4.4	15.2	22.7	4.8	27.0	0.5	1.9	10.8
Mississippi	-	11	9	1.7	9.7	1.6	2.7	8.9	13.4	2.8	16.5	(D)	FF	(D)
West South Central Division:														
Arkansas	-	3	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Oklahoma	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Texas	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
INDUSTRY 2328, MEN'S AND BOYS' WORK CLOTHING														
United States	-	656	575	113.7	719.4	101.6	183.7	589.9	1 765.4	1 913.2	3 641.9	44.1	89.6	784.8
New England Division:														
Massachusetts	-	8	7	0.6	5.2	0.5	0.9	3.8	7.5	11.4	18.7	(D)	BB	(D)
Middle Atlantic Division:														
New York	E3	32	20	0.9	5.5	0.8	1.4	5.0	13.0	15.4	28.6	0.2	1.1	23.7
New Jersey	E2	5	3	0.3	2.3	0.3	0.4	2.0	3.4	5.4	8.6	(D)	0.4	3.5
Pennsylvania	-	26	22	2.1	14.2	2.0	3.2	12.0	25.2	26.5	52.7	(D)	3.2	26.9
East North Central Division:														
Ohio	E5	6	4	0.2	1.8	0.2	0.4	1.1	2.6	2.7	5.3	0.1	CC	(D)
Indiana	-	12	10	1.9	13.0	1.8	3.5	10.8	31.8	38.7	71.7	0.4	1.8	11.5
Illinois	-	14	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Michigan	-	3	3	0.3	1.7	0.2	0.4	1.3	2.7	7.1	9.3	(D)	(NA)	(NA)
Wisconsin	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2328, MEN'S AND BOYS' WORK CLOTHING—Con.													
West North Central Division:													
Iowa	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Missouri	-	36	31	5.4	33.3	4.9	9.1	28.9	65.5	41.7	110.3	(D)	FF	(D)
Kansas	-	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
South Atlantic Division:														
Maryland	-	9	8	0.9	9.1	0.7	1.4	4.3	20.5	35.9	56.6	(D)	0.7	8.6
Virginia	-	17	16	4.2	26.8	3.8	7.0	23.4	128.6	93.4	216.0	(D)	4.0	43.2
West Virginia	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
North Carolina	-	21	19	2.9	18.1	2.5	4.4	14.2	31.2	27.0	57.9	0.5	3.9	22.9
South Carolina	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	4.8
Georgia	-	57	53	10.9	70.4	9.5	17.2	53.2	157.9	169.0	323.1	(D)	6.8	57.3
Florida	E2	11	7	0.9	6.7	0.8	1.3	5.7	9.3	6.1	15.2	0.3	BB	(D)
East South Central Division:														
Kentucky	-	35	34	7.0	42.0	6.3	10.8	36.6	72.7	65.1	137.7	(D)	6.2	48.5
Tennessee	-	74	70	18.7	113.7	16.5	28.4	94.8	316.9	331.9	642.2	(D)	17.0	149.7
Alabama	-	42	39	7.4	42.6	6.6	11.1	36.6	81.2	60.3	139.2	2.5	4.7	33.8
Mississippi	-	49	49	13.5	80.4	12.7	22.1	69.6	136.6	136.9	266.6	(D)	6.6	42.3
West South Central Division:														
Arkansas	-	11	11	1.4	8.9	1.3	2.3	7.6	9.8	12.9	22.6	0.3	1.5	12.3
Louisiana	-	11	11	1.4	7.7	1.3	2.1	6.3	16.8	16.4	30.1	(D)	1.4	8.6
Oklahoma	-	19	19	4.3	27.4	3.9	7.3	24.5	78.5	74.9	150.1	(D)	2.2	13.0
Texas	-	78	70	18.3	115.6	16.8	32.3	100.0	305.0	289.0	588.5	(D)	13.0	112.1
Mountain Division:														
Colorado	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
New Mexico	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Arizona	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
California	-	39	22	2.5	17.2	2.3	4.4	14.1	99.4	181.9	279.8	0.8	EE	(D)
Industry 2328-11, Manufacturers														
United States	(NA)	**361**	**301**	**65.0**	**408.0**	**58.7**	**105.2**	**338.9**	**1 027.3**	**1 178.5**	**2 183.8**	**24.8**	**50.1**	**444.3**
New England Division:														
Massachusetts	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	E6	20	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pennsylvania	-	13	10	1.0	6.2	0.9	1.4	5.1	12.8	16.3	28.1	0.2	1.4	13.3
East North Central Division:														
Ohio	E6	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Indiana	-	11	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Illinois	E2	10	7	0.8	4.5	0.7	1.4	3.9	7.8	8.1	15.9	0.1	0.3	2.0
Wisconsin	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Division:														
Iowa	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Missouri	-	19	15	2.1	12.6	2.0	3.7	10.8	25.3	28.2	55.5	0.2	1.7	15.3
Kansas	-	4	4	0.6	3.2	0.5	0.9	2.9	5.5	7.6	13.2	(D)	CC	(D)
South Atlantic Division:														
Maryland	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Virginia	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	15.5
West Virginia	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina	-	12	10	1.6	10.4	1.4	2.4	7.6	19.9	25.6	45.5	0.3	2.0	11.4
Georgia	-	35	33	7.3	47.3	6.4	11.9	36.9	117.6	123.8	239.9	3.4	3.4	35.4
Florida	E3	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Division:														
Kentucky	-	18	17	4.0	24.0	3.5	5.9	20.8	46.5	58.5	104.9	(D)	4.2	34.6
Tennessee	-	41	37	11.0	70.2	9.9	16.8	58.4	233.3	226.9	453.9	4.5	9.8	95.5
Alabama	-	14	11	2.3	13.8	2.0	3.5	11.5	31.1	57.0	86.2	0.7	1.9	18.9
Mississippi	-	27	27	8.3	50.1	7.8	13.3	43.6	85.2	109.5	187.2	1.4	4.5	31.9
West South Central Division:														
Arkansas	-	6	6	0.7	5.0	0.6	1.2	4.3	5.2	10.9	16.1	0.2	CC	(D)
Louisiana	-	4	4	0.9	4.9	0.8	1.4	4.0	12.6	12.3	21.8	(D)	CC	(D)
Oklahoma	-	7	7	1.7	10.3	1.4	2.7	8.6	15.1	31.1	46.8	(D)	0.9	2.9
Texas	-	45	38	11.8	72.7	10.8	19.9	61.7	227.1	235.6	461.1	(D)	8.8	86.3
Mountain Division:														
Colorado	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Arizona	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
California	-	23	13	1.9	13.1	1.7	3.3	10.7	33.2	51.5	83.9	0.5	EE	(D)

See footnotes at end of table.

Table 2. **Industry Statistics by Geographic Area: 1977 and 1972**—Con.

[For explanation of terms, see appendix A]

Geographic area	1977												1972	
		All establishments		All employees		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2328-22, Jobbers														
United States	**(NA)**	**41**	**30**	**7.1**	**61.4**	**4.6**	**10.6**	**30.8**	**318.3**	**677.8**	**983.8**	**5.5**	**6.0**	**164.1**
West North Central Division:														
Iowa	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Kansas	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Atlantic Division:														
Maryland	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Virginia	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Georgia	-	4	3	0.7	7.5	0.4	0.9	3.0	21.0	41.7	60.7	0.3	0.6	9.3
East South Central Division:														
Kentucky	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Tennessee	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Mississippi	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Oklahoma	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Texas	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Industry 2328-33, Independent Contractors														
United States	**(NA)**	**91**	**81**	**10.0**	**58.9**	**9.1**	**16.1**	**50.9**	**81.4**	**18.6**	**99.1**	**2.6**	**8.8**	**48.7**
Middle Atlantic Division:														
New York	-	6	5	0.2	1.9	0.2	0.4	1.7	2.4	0.4	2.8	(Z)	(NA)	(NA)
Pennsylvania	-	9	9	0.9	6.1	0.9	1.4	5.7	9.0	2.8	11.7	0.2	1.6	10.7
West North Central Division:														
Missouri	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
Maryland	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	2.6
North Carolina	-	6	6	0.8	5.2	0.7	1.2	4.5	7.5	1.1	8.5	0.1	0.8	4.1
Georgia	-	9	8	1.1	5.5	1.0	1.8	4.4	7.3	1.1	8.3	0.1	0.8	4.4
East South Central Division:														
Kentucky	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	-	10	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Alabama	-	5	5	0.5	2.6	0.5	0.7	2.3	3.4	0.4	3.7	(D)	0.6	3.4
Mississippi	-	8	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	3.8
West South Central Division:														
Louisiana	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas	-	8	8	0.9	5.5	0.9	2.0	4.9	7.8	0.7	8.4	0.2	CC	(D)
Pacific Division:														
California	E2	9	6	0.5	3.2	0.5	0.9	2.8	4.2	1.0	5.1	0.3	(NA)	(NA)
Industry 2328-44, Multiplant Company Contractors														
United States	**(NA)**	**163**	**153**	**31.6**	**191.0**	**25.2**	**51.9**	**169.4**	**338.5**	**38.4**	**375.2**	**11.2**	**24.6**	**127.7**
New England Division:														
Massachusetts	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New Jersey	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East North Central Division:														
Michigan	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:														
Iowa	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri	-	13	13	2.5	15.2	2.1	3.9	13.6	20.5	2.4	23.0	(D)	FF	(D)
South Atlantic Division:														
Virginia	-	9	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
North Carolina	-	3	3	0.5	2.5	0.4	0.7	2.2	3.7	0.3	3.9	(D)	CC	(D)
South Carolina	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	-	9	9	1.8	10.0	1.6	2.7	8.8	12.0	2.4	14.2	0.4	1.9	8.2
Florida	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
East South Central Division:														
Kentucky	-	14	14	2.5	15.5	2.3	4.2	13.6	20.8	3.5	24.3	0.6	EE	(D)
Tennessee	-	21	21	4.5	24.5	4.0	7.0	21.8	31.2	4.8	36.2	0.8	FF	(D)
Alabama	-	23	23	4.6	26.2	4.1	6.8	22.8	46.7	2.9	49.3	(D)	2.2	11.6
Mississippi	-	13	13	3.4	20.1	3.3	5.8	16.6	24.9	3.1	28.1	1.9	1.3	6.6
West South Central Division:														
Arkansas	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Louisiana	-	4	4	0.3	1.6	0.3	0.5	1.4	2.1	0.5	2.6	(D)	BB	(D)
Oklahoma	-	10	10	2.0	12.7	2.0	3.5	11.9	47.1	1.6	47.9	0.7	CC	(D)
Texas	-	22	22	5.3	35.0	5.0	9.9	32.1	51.4	11.3	62.8	0.5	3.4	18.1

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2329, MEN'S AND BOYS' CLOTHING, N.E.C.														
United States	-	**632**	**400**	**43.8**	**285.8**	**38.1**	**67.4**	**219.3**	**542.8**	**530.6**	**1 065.1**	**20.2**	**41.9**	**393.8**
New England Division:														
New Hampshire	-	5	5	0.3	1.7	0.3	0.5	1.5	3.5	0.3	3.6	(D)	(NA)	(NA)
Vermont	-	3	3	0.3	1.6	0.2	0.4	0.8	3.9	2.7	6.6	(D)	(NA)	(NA)
Massachusetts	E3	18	8	0.8	5.2	0.7	1.2	3.8	7.9	5.8	13.8	(D)	1.4	12.5
Connecticut	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Middle Atlantic Division:														
New York	E1	110	51	4.5	34.7	3.9	7.5	24.5	66.6	97.1	165.0	6.2	4.8	55.8
New Jersey	-	35	20	1.9	14.7	1.5	2.8	10.4	36.9	57.3	93.7	(D)	2.3	36.4
Pennsylvania	-	56	43	3.7	24.4	3.3	5.6	19.2	44.5	33.9	77.7	0.8	4.9	36.0
East North Central Division:														
Ohio	-	9	4	0.4	2.8	0.4	0.7	2.2	5.6	4.2	9.7	(D)	BB	(D)
Indiana	E2	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Illinois	E2	10	4	0.2	1.2	0.2	0.3	0.9	2.4	1.9	4.1	(Z)	1.0	7.8
Michigan	-	8	5	0.6	3.8	0.5	0.8	2.5	11.0	9.6	19.8	(D)	BB	(D)
Wisconsin	-	10	8	0.9	7.4	0.8	1.3	5.1	11.6	9.1	19.8	0.1	CC	(D)
West North Central Division:														
Minnesota	-	15	11	0.9	6.5	0.8	1.3	5.4	13.4	7.4	21.0	0.2	1.1	12.6
Iowa	E2	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	5.5
Missouri	-	20	19	2.2	13.5	2.0	3.3	9.9	36.1	26.9	63.3	0.5	2.5	21.8
South Dakota	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Nebraska	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
Delaware	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Maryland	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.3
Virginia	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West Virginia	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
North Carolina	-	13	11	1.7	9.9	1.4	2.4	7.3	12.8	15.7	30.3	0.4	1.1	6.4
South Carolina	-	7	5	0.9	5.1	0.8	1.5	4.2	7.2	2.3	9.5	(D)	0.4	2.2
Georgia	-	22	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Florida	E4	27	13	0.8	4.8	0.7	1.2	4.0	7.9	5.5	13.3	0.2	0.6	4.3
East South Central Division:														
Kentucky	E3	8	6	0.8	4.7	0.7	1.3	4.0	6.1	2.0	8.3	(D)	CC	(D)
Tennessee	-	27	20	3.1	17.5	2.7	4.7	13.9	28.3	38.9	64.2	1.3	FF	(D)
Alabama	-	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Mississippi	-	11	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West South Central Division:														
Arkansas	-	9	8	0.9	5.2	0.8	1.5	4.6	9.0	7.3	16.2	(D)	1.3	11.6
Louisiana	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas	-	17	13	1.7	9.8	1.5	3.0	8.1	18.5	16.1	34.9	1.1	EE	(D)
Mountain Division:														
Wyoming	E3	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Colorado	-	10	8	0.7	4.8	0.6	1.2	3.9	7.7	7.0	14.7	(D)	(NA)	(NA)
Arizona	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Utah	E1	16	11	1.1	5.7	1.0	1.7	4.9	10.7	7.7	17.8	(D)	CC	(D)
Pacific Division:														
Washington	-	22	19	2.4	16.2	2.1	3.8	13.2	37.0	38.3	74.0	2.1	2.3	30.6
Oregon	-	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
California	-	64	29	3.4	21.5	2.9	4.5	15.3	42.3	41.5	82.5	1.3	2.0	19.9
Hawaii	E2	9	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Industry 2329-11, Manufacturers														
United States	(NA)	**379**	**208**	**24.7**	**165.4**	**21.2**	**37.5**	**124.8**	**321.0**	**337.9**	**650.2**	**10.7**	**21.6**	**214.3**
New England Division:														
Vermont	-	3	3	0.3	1.6	0.2	0.4	0.8	3.9	2.7	6.6	(D)	(NA)	(NA)
Massachusetts	E3	14	7	0.7	4.6	0.6	1.0	3.4	7.2	5.7	13.0	0.1	0.6	5.5
Connecticut	E1	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	E1	54	28	2.6	18.1	2.2	3.9	13.5	36.0	41.3	76.6	1.0	2.2	25.8
New Jersey	E1	20	7	0.5	3.5	0.4	0.7	2.5	6.6	8.8	15.5	0.1	0.3	4.6
Pennsylvania	E1	23	16	1.6	11.8	1.5	2.6	9.1	22.7	18.9	40.9	0.5	2.1	17.1
East North Central Division:														
Ohio	-	9	4	0.4	2.8	0.4	0.7	2.2	5.6	4.2	9.7	(D)	BB	(D)
Indiana	E1	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois	E2	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.9
Michigan	-	8	5	0.6	3.8	0.5	0.8	2.5	11.0	9.6	19.8	0.2	0.4	2.5
Wisconsin	-	5	3	0.3	2.6	0.2	0.5	1.7	5.2	5.3	9.6	0.1	CC	(D)
West North Central Division:														
Minnesota	-	12	10	0.8	6.0	0.7	1.2	4.9	12.7	6.8	19.7	0.1	0.8	10.0
Iowa	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Missouri	-	5	4	0.7	4.1	0.6	1.1	2.7	11.3	9.5	20.8	(D)	1.6	15.2
South Dakota	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Kansas	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Maryland	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Virginia	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
North Carolina	-	9	8	1.3	7.5	1.1	1.7	5.7	10.0	15.1	27.1	0.3	BB	(D)
Georgia	-	12	8	1.0	6.3	0.8	1.6	5.0	11.8	9.6	21.6	0.2	0.4	3.0
Florida	E5	16	6	0.4	2.7	0.4	0.6	2.1	5.1	4.2	9.3	0.1	0.4	2.6

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2329-11, Manufacturers—Con.														
East South Central Division:														
Tennessee	-	20	14	2.4	14.2	2.0	3.7	11.0	23.5	38.3	58.4	1.2	EE	(D)
Alabama	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mississippi	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Arkansas	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Louisiana	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas	-	10	7	0.7	4.3	0.6	1.1	3.0	10.9	15.3	26.5	0.9	EE	(D)
Mountain Division:														
Wyoming	E3	6	3	0.2	0.9	0.1	0.2	0.7	1.8	1.6	3.3	0.1	(NA)	(NA)
Colorado	-	10	8	0.7	4.8	0.6	1.2	3.9	7.7	7.0	14.7	(D)	(NA)	(NA)
Arizona	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Utah	E3	8	4	0.3	1.5	0.3	0.4	1.2	2.9	2.4	5.2	(Z)	(NA)	(NA)
Pacific Division:														
Washington	-	13	10	1.5	10.3	1.3	2.4	8.1	28.9	27.9	55.7	0.5	EE	(D)
Oregon	-	6	3	0.4	2.3	0.3	0.5	2.0	5.4	6.5	11.2	(D)	AA	(D)
California	-	39	14	1.7	11.5	1.3	2.1	8.1	21.8	23.9	44.6	1.2	1.1	12.6
Industry 2329-22, Jobbers														
United States	**(NA)**	**37**	**17**	**2.2**	**19.9**	**1.4**	**2.9**	**8.6**	**75.4**	**165.7**	**241.1**	**2.8**	**3.7**	**73.3**
Middle Atlantic Division:														
New York	E1	11	2	0.4	4.4	0.2	0.5	0.7	13.9	54.4	70.1	0.3	BB	(D)
New Jersey	-	4	3	0.5	5.4	0.3	0.6	2.7	22.1	47.8	69.4	(D)	CC	(D)
Pennsylvania	-	5	4	0.2	1.3	0.1	0.2	0.5	4.0	13.4	17.2	(Z)	(NA)	(NA)
Pacific Division:														
Washington	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
California	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Industry 2329-33, Independent Contractors														
United States	**(NA)**	**152**	**120**	**9.9**	**60.8**	**9.1**	**15.8**	**51.0**	**84.6**	**13.1**	**97.6**	**5.8**	**11.1**	**71.7**
Middle Atlantic Division:														
New York	-	29	18	1.3	10.0	1.2	2.3	8.5	14.3	1.2	15.7	4.8	EE	(D)
New Jersey	E1	11	10	0.9	5.8	0.8	1.5	5.3	8.2	0.7	8.8	0.1	EE	(D)
Pennsylvania	-	23	19	1.3	7.3	1.2	1.8	6.0	10.0	1.3	11.1	0.1	EE	(D)
East North Central Division:														
Wisconsin	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:														
Iowa	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Missouri	-	5	5	0.6	3.6	0.5	1.0	3.2	5.5	0.4	5.7	0.1	(NA)	(NA)
South Atlantic Division:														
Delaware	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Carolina	-	4	3	0.3	2.1	0.3	0.5	1.5	2.7	0.2	3.0	(D)	(NA)	(NA)
Georgia	-	7	7	0.7	3.3	0.6	0.8	2.9	5.2	0.4	5.6	0.1	CC	(D)
Florida	E2	10	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Division:														
Kentucky	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	E2	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Alabama	-	3	3	0.2	1.0	0.2	0.3	0.8	1.4	0.1	1.5	(D)	CC	(D)
West South Central Division:														
Texas	E1	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Pacific Division:														
Washington	-	4	4	0.3	2.1	0.3	0.6	2.0	2.6	0.2	2.9	(D)	(NA)	(NA)
California	-	18	13	1.1	6.3	1.0	1.8	5.1	9.2	1.1	10.3	0.1	CC	(D)
Industry 2329-44, Multiplant Company Contractors														
United States	**(NA)**	**63**	**54**	**7.0**	**39.0**	**6.3**	**11.1**	**34.3**	**58.8**	**11.0**	**70.3**	**0.9**	**5.6**	**34.4**
Middle Atlantic Division:														
New York	-	6	3	0.3	2.2	0.2	0.7	2.0	2.4	0.2	2.7	(D)	BB	(D)
Pennsylvania	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
East North Central Division:														
Wisconsin	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:														
Missouri	-	7	7	BB	4.3	0.7	1.2	4.0	5.7	0.9	6.6	0.1	CC	(D)
Nebraska	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
West Virginia	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Carolina	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977												1972	
		All establishments		All employees		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2329-44, Multiplant Company Contractors—Con.														
East South Central Division:														
Kentucky	-	4	4	0.5	3.0	0.4	0.8	2.6	3.8	0.2	4.0	(D)	BB	(D)
Tennessee	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mississippi	-	6	6	0.8	4.4	0.5	1.1	3.0	4.9	1.6	6.7	0.1	BB	(D)
West South Central Division:														
Arkansas	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Texas	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Mountain Division:														
Utah	E2	6	5	0.6	3.5	0.6	1.1	3.1	4.9	2.4	7.4	(D)	CC	(D)
Pacific Division:														
Washington	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
California	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Men's and boys' suits and coats (SIC 2311)					Men's and boys' shirts and nightwear (SIC 2321)				
		Total	Manufacturers (SIC 2311-11)	Jobbers (SIC 2311-22)	Independent contractors (SIC 2311-33)	Multiplant company contractors (SIC 2311-44)	Total	Manufacturers (SIC 2321-11)	Jobbers (SIC 2321-22)	Independent contractors (SIC 2321-33)	Multiplant company contractors (SIC 2321-44)
Primary product specialization ratio[1]	percent	93	(NA)	(NA)	(NA)	(NA)	92	(NA)	(NA)	(NA)	(NA)
Coverage ratio[2]	do	92	(NA)	(NA)	(NA)	(NA)	92	(NA)	(NA)	(NA)	(NA)
All establishments	number	737	409	83	171	74	928	469	108	192	159
With 1 to 19 employees	do	270	191	35	42	2	249	178	37	33	1
With 20 to 99 employees	do	204	72	38	73	21	303	102	55	112	34
With 100 employees or more	do	263	146	10	56	51	376	189	16	47	124
All employees, average for year	1,000	98.7	60.6	5.3	18.0	14.8	114.7	58.4	7.4	16.0	32.9
Payroll for year, all employees	mil. dol.	822.2	526.3	63.3	126.2	106.4	711.3	366.0	74.5	88.2	182.7
Production workers:											
Average for year	1,000	86.2	52.5	3.2	16.7	13.7	103.0	52.9	4.5	14.7	30.9
March	do	84.2	51.3	3.1	16.2	13.6	101.9	52.8	4.6	14.2	30.4
May	do	86.9	53.1	3.1	17.0	13.7	103.4	53.1	4.5	14.6	31.2
August	do	87.1	53.1	3.1	17.0	13.9	104.6	53.4	4.5	15.2	31.5
November	do	86.4	52.6	3.5	16.7	13.5	102.2	52.3	4.5	15.0	30.4
Hours	millions	152.9	92.8	6.3	28.9	24.9	184.1	95.1	8.4	25.6	55.0
January to March	do	37.4	22.6	1.6	7.0	6.1	45.1	23.5	2.1	6.0	13.5
April to June	do	39.8	24.4	1.4	7.5	6.4	47.8	24.7	2.2	5.6	14.4
July to September	do	37.1	22.4	1.6	7.0	6.1	45.6	23.5	2.0	6.5	13.7
October to December	do	38.6	23.4	1.7	7.3	6.1	45.5	23.5	2.0	6.6	13.5
Wages	mil. dol.	645.5	413.1	27.6	110.3	94.4	569.9	303.3	29.9	74.9	161.7
Cost of materials, etc.	do	1 232.4	739.8	432.7	36.6	23.3	1 539.5	747.7	734.6	19.8	37.4
Materials, parts, containers, etc., consumed	do	846.8	587.2	217.7	23.6	18.2	1 107.9	684.4	381.6	13.1	28.8
Resales	do	45.1	44.0	1.1	0.1	-	82.0	16.9	43.9	0.9	0.3
Fuels consumed	do	8.5	5.4	0.4	1.9	0.8	3.9	2.0	0.2	0.6	1.2
Purchased electric energy	do	14.6	8.2	1.1	3.1	2.2	14.9	7.3	1.0	2.0	4.6
Contract work	do	317.4	95.1	212.4	7.9	2.1	350.8	37.1	307.8	3.2	2.6
Value of shipments, including resales	do	2 767.5	1 775.3	594.2	222.5	175.4	2 934.6	1 531.3	979.9	138.6	284.8
Value of resales	do	83.1	81.2	1.7	0.2	-	84.8	28.4	53.5	2.6	0.3
Value added by manufacture	do	1 574.4	1 070.5	164.5	186.9	152.4	1 445.7	793.0	287.2	119.0	246.6
Manufacturers' inventories:											
Beginning of year	do	416.8	291.7	94.2	14.5	16.4	442.6	253.8	161.1	6.4	21.2
Finished products	do	165.1	112.1	48.7	2.2	2.1	212.0	112.0	95.7	1.2	3.2
Work in process	do	118.8	82.6	18.4	6.8	11.0	90.1	55.3	19.5	3.3	12.0
Materials, supplies, fuel, etc.	do	132.9	97.0	27.1	5.5	3.3	140.5	86.5	45.9	1.9	6.1
End of year	do	470.5	341.1	95.7	15.7	17.9	501.4	265.6	208.4	6.9	20.6
Finished products	do	185.0	130.4	50.1	2.1	2.3	241.6	120.2	117.4	1.3	2.7
Work in process	do	138.2	99.3	19.9	7.9	11.1	111.2	56.5	39.6	3.4	11.7
Materials, supplies, fuel, etc.	do	147.3	111.4	25.7	5.7	4.4	148.6	88.9	51.4	2.2	6.2
Capital expenditures for plant and equipment	do	28.6	14.9	4.3	4.0	5.4	29.2	17.9	3.6	2.5	5.1
New capital expenditures	do	25.8	14.0	4.3	3.4	4.1	25.9	16.8	2.7	2.4	4.0
New buildings and other structures	do	5.8	3.8	0.8	0.8	0.5	6.2	4.0	1.1	0.7	0.4
New machinery and equipment	do	20.0	10.3	3.5	2.6	3.6	19.7	12.7	1.6	1.8	3.6
Used capital expenditures	do	2.8	0.8	(Z)	0.6	1.4	3.3	1.2	0.9	0.1	1.1

See footnotes at end of table.

Table 3a. Summary Statistics for the Industry: 1977—Con.

[For explanation of terms, see appendix A]

Item	Unit of measure	Men's and boys' underwear (SIC 2322)	Men's and boys' neckwear (SIC 2323)	Men's and boys' separate trousers (SIC 2327)				
				Total	Manufacturers (SIC 2327-11)	Jobbers (SIC 2327-22)	Independent contractors (SIC 2327-33)	Multiplant company contractors (SIC 2327-44)
Primary product specialization ratio[1]	percent	87	100	84	(NA)	(NA)	(NA)	(NA)
Coverage ratio[2]	do	91	97	88	(NA)	(NA)	(NA)	(NA)
All establishments	number	76	207	514	244	56	118	96
With 1 to 19 employees	do	17	126	179	107	30	31	10
With 20 to 99 employees	do	21	71	137	44	19	52	23
With 100 employees or more	do	38	10	198	93	7	35	63
All employees, average for year	1,000	15.1	6.3	70.9	40.8	3.8	9.0	17.3
Payroll for year, all employees	mil. dol.	82.2	57.5	474.0	264.3	42.0	54.1	113.6
Production workers:								
Average for year	1,000	13.7	5.1	61.9	34.8	2.5	8.3	16.3
March	do	13.7	5.1	62.1	34.8	2.5	8.1	16.8
May	do	13.6	5.0	61.6	34.8	2.5	8.3	16.2
August	do	13.5	5.2	61.9	34.7	2.6	8.4	16.2
November	do	14.1	5.2	61.8	34.8	2.7	8.4	16.0
Hours	millions	23.8	8.7	107.6	58.9	5.7	13.7	29.2
January to March	do	5.9	2.2	26.2	14.3	1.3	3.3	7.3
April to June	do	6.2	2.2	28.0	15.3	1.5	3.6	7.5
July to September	do	5.7	2.1	26.8	14.7	1.5	3.5	7.2
October to December	do	6.0	2.2	26.6	14.5	1.5	3.3	7.3
Wages	mil. dol.	79.0	33.4	372.0	203.5	19.7	46.5	102.2
Cost of materials, etc.	do	205.1	108.9	878.6	463.0	369.3	15.0	31.3
Materials, parts, containers, etc., consumed	do	182.3	93.4	658.2	411.8	208.4	12.2	25.8
Resales	do	(D)	(D)	6.9	5.2	1.6	0.1	0.1
Fuels consumed	do	0.8	0.3	3.8	1.7	0.2	0.9	0.9
Purchased electric energy	do	1.5	1.0	9.2	4.7	0.6	1.4	2.5
Contract work	do	(D)	(D)	200.5	39.6	158.6	0.3	2.0
Value of shipments, including resales	do	419.8	223.8	1 718.0	942.6	516.3	90.9	168.2
Value of resales	do	(D)	(D)	9.8	8.1	1.5	0.1	0.1
Value added by manufacture	do	218.2	117.5	845.6	463.4	167.9	75.7	138.6
Manufacturers' inventories:								
Beginning of year	do	50.8	26.3	279.8	196.6	60.3	5.6	17.2
Finished products	do	30.2	13.0	143.5	102.0	39.1	1.1	1.3
Work in process	do	9.3	2.9	43.9	28.4	4.2	1.9	9.5
Materials, supplies, fuel, etc.	do	11.2	10.4	92.3	66.2	17.1	2.6	6.4
End of year	do	55.1	29.6	281.9	169.8	86.8	5.6	19.6
Finished products	do	32.7	15.1	141.5	84.4	54.2	1.0	1.9
Work in process	do	10.3	3.5	52.2	29.8	10.0	1.8	10.6
Materials, supplies, fuel, etc.	do	12.1	11.0	88.2	55.6	22.7	2.7	7.1
Capital expenditures for plant and equipment	do	2.7	2.6	24.1	11.8	5.6	1.9	4.8
New capital expenditures	do	2.6	2.6	22.8	11.2	5.6	1.9	4.2
New buildings and other structures	do	0.5	0.8	5.0	2.7	1.0	0.4	0.9
New machinery and equipment	do	2.0	1.8	17.9	8.5	4.6	1.5	3.3
Used capital expenditures	do	0.2	(Z)	1.3	0.6	(Z)	0.1	0.6

See footnotes at end of table.

Table 3a. Summary Statistics for the Industry: 1977—Con.

[For explanation of terms, see appendix A]

Item	Unit of measure	Men's and boys' work clothing (SIC 2328)					Men's and boys' clothing, n.e.c. (SIC 2329)				
		Total	Manufacturers (SIC 2328-11)	Jobbers (SIC 2328-22)	Independent contractors (SIC 2328-33)	Multiplant company contractors (SIC 2328-44)	Total	Manufacturers (SIC 2329-11)	Jobbers (SIC 2329-22)	Independent contractors (SIC 2329-33)	Multiplant company contractors (SIC 2329-44)
Primary product specialization ratio[1]	percent	89	(NA)	(NA)	(NA)	(NA)	83	(NA)	(NA)	(NA)	(NA)
Coverage ratio[2]	do	94	(NA)	(NA)	(NA)	(NA)	80	(NA)	(NA)	(NA)	(NA)
All establishments	number	656	361	41	91	163	632	379	37	152	63
With 1 to 19 employees	do	81	60	11	10	-	232	171	20	32	9
With 20 to 99 employees	do	193	94	14	40	45	260	129	7	91	32
With 100 employees or more	do	382	207	16	41	118	140	79	10	29	22
All employees, average for year	1,000	113.7	65.0	7.1	10.0	31.6	43.8	24.7	2.2	9.9	7.0
Payroll for year, all employees	mil. dol.	719.4	408.0	61.4	58.9	191.0	285.8	165.4	19.9	60.8	39.0
Production workers:											
Average for year	1,000	101.6	58.7	4.6	9.1	29.2	38.1	21.2	1.4	9.1	6.3
March	do	100.5	58.3	4.6	8.5	29.1	37.3	21.1	1.4	9.1	5.7
May	do	101.8	58.8	4.6	9.0	29.4	38.5	21.4	1.4	9.4	6.3
August	do	102.0	58.6	4.7	9.3	29.4	38.4	21.2	1.4	9.1	6.7
November	do	102.1	59.1	4.6	9.6	28.9	38.2	21.1	1.4	8.9	6.7
Hours	millions	183.7	105.2	10.6	16.1	51.9	67.4	37.5	2.9	15.8	11.1
January to March	do	44.9	25.5	2.6	3.7	13.1	15.5	8.8	0.7	3.6	2.4
April to June	do	47.9	27.4	2.7	4.2	13.5	17.4	9.6	0.7	4.2	2.9
July to September	do	45.3	26.0	2.6	4.1	12.6	17.2	9.4	0.7	4.0	3.0
October to December	do	45.6	26.3	2.7	4.0	12.6	17.2	9.6	0.8	4.0	2.9
Wages	mil. dol.	589.9	338.9	30.8	50.9	169.4	219.3	124.8	8.6	51.0	34.3
Cost of materials, etc.	do	1 913.1	1 178.5	677.7	18.6	38.4	530.6	337.9	165.7	13.1	11.0
Materials, parts, containers, etc., consumed	do	1 608.4	1 123.8	438.3	16.1	30.3	405.5	298.2	86.0	10.0	8.7
Resales	do	26.7	22.3	4.3	0.1	0.1	29.8	20.0	9.7	(Z)	(Z)
Fuels consumed	do	4.3	2.0	0.4	0.6	1.3	2.4	1.1	0.2	0.4	0.6
Purchased electric energy	do	15.3	8.4	1.3	1.0	4.6	6.2	3.1	0.5	1.3	1.3
Contract work	do	258.3	22.0	233.4	0.8	2.2	86.6	15.5	69.2	1.4	0.4
Value of shipments, including resales	do	3 641.9	2 183.8	583.8	99.1	375.2	1 065.1	650.2	241.1	97.6	70.3
Value of resales	do	34.5	30.2	4.2	0.2	0.1	40.1	26.2	13.7	0.2	(Z)
Value added by manufacture	do	1 765.4	1 027.3	328.2	81.4	338.5	542.8	321.0	75.4	84.6	58.8
Manufacturers' inventories:											
Beginning of year	do	427.4	273.5	128.0	5.6	20.4	182.2	127.3	39.5	9.8	5.2
Finished products	do	186.8	123.4	58.1	1.5	3.8	89.3	63.6	22.2	3.0	0.3
Work in process	do	84.7	49.4	22.7	2.1	10.5	33.6	22.4	5.9	2.4	2.7
Materials, supplies, fuel, etc.	do	156.0	100.7	47.2	2.0	6.1	59.3	41.3	11.4	4.3	2.1
End of year	do	477.7	307.3	139.0	7.5	23.9	201.9	144.5	44.0	9.5	3.5
Finished products	do	210.3	139.4	66.3	2.0	2.5	94.2	68.6	22.6	2.7	0.1
Work in process	do	97.9	55.4	26.6	2.5	13.5	36.9	26.0	5.5	2.8	2.5
Materials, supplies, fuel, etc.	do	169.5	112.5	46.1	3.0	7.9	70.8	49.8	15.9	4.0	0.9
Capital expenditures for plant and equipment	do	52.0	30.3	6.0	3.8	12.0	21.4	11.2	2.8	5.9	1.4
New capital expenditures	do	44.1	24.8	5.5	2.6	11.2	20.2	10.7	2.8	5.8	0.9
New buildings and other structures	do	13.8	8.3	1.7	0.9	2.9	5.9	4.1	1.6	0.1	0.1
New machinery and equipment	do	30.3	16.5	3.9	1.7	8.2	14.3	6.6	1.2	5.7	0.8
Used capital expenditures	do	7.9	5.5	0.4	1.1	0.9	1.2	0.5	(Z)	0.1	0.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Men's and boys' suits and coats (SIC 2311)		Men's and boys' shirts and nightwear (SIC 2321)		Men's and boys' underwear (SIC 2322)		Men's and boys' neckwear (SIC 2323)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	(2.5)	15	(2.1)	19	0.5	11	0.1	1
Response coverage ratio[2] (percent)	66.3	(X)	54.1	(X)	71.6	(X)	70.1	(X)
Machinery	(4.4)	21	(6.7)	16	1.4	8	(0.3)	15
Response coverage ratio[2] (percent)	70.6	(X)	56.3	(X)	78.5	(X)	54.4	(X)
Cost of purchased communication services	(4.4)	18	4.2	11	0.6	8	(0.5)	23
Response coverage ratio[2] (percent)	75.6	(X)	53.9	(X)	73.4	(X)	78.1	(X)
Rental payments	22.5	3	16.1	7	2.3	2	(2.8)	24
Buildings and other structures	12.5	5	10.8	8	1.4	2	(2.6)	22
Machinery and equipment	10.0	4	5.3	11	0.9	1	(0.2)	48
Supplemental labor costs	142.0	2	102.0	2	13.7	1	7.4	5
Legal costs	73.8	4	58.8	2	7.2	1	4.2	6
Voluntary costs	68.2	2	43.2	3	6.5	1	3.3	7
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	93.5	4	89.3	6	18.2	3	(3.3)	22
New capital expenditures	5.7	6	(9.7)	24	0.4	6	(0.8)	19
Used capital expenditures	(3.5)	45	(2.3)	29	-	(X)	(Z)	(1)
Retirements	4.3	9	10.1	13	0.7	5	(0.3)	28
End of year	98.4	4	91.1	4	18.0	3	(3.8)	19
Machinery and equipment:								
Beginning of year	160.4	3	191.4	4	20.5	3	(10.0)	33
New capital expenditures	22.0	6	20.0	7	1.8	2	2.3	14
Automobiles, trucks, etc., for highway use[3]	(0.7)	(A)	(0.9)	(A)	(0.1)	(A)	(0.2)	(A)
Computers and peripheral data processing equipment[3]	(2.6)	(A)	(0.9)	(A)	-	(X)	(Z)	(A)
All other[3]	(14.6)	(A)	(13.0)	(A)	(1.6)	(A)	(0.9)	(A)
New machinery and equipment, n.s.k.[4]	(4.2)	(A)	(5.2)	(A)	(0.1)	(A)	(1.1)	(A)
Used capital expenditures	0.7	2	1.5	4	0.2	1	(Z)	75
Retirements	10.0	6	17.9	12	0.7	8	(1.1)	41
End of year	173.1	3	194.9	3	21.8	3	11.3	8
Total gross value of depreciable assets:								
Beginning of year	253.8	2	280.6	4	38.7	3	13.3	13
New capital expenditures	27.7	6	29.6	7	2.2	1	3.1	13
Used capital expenditures	(4.2)	38	(3.7)	19	0.2	1	(Z)	75
Retirements	14.3	7	28.0	12	1.4	7	(1.4)	33
End of year	271.4	2	286.0	3	39.8	3	15.0	9
Depreciation charges during 1977	18.2	2	25.4	3	2.2	1	1.3	7
Buildings and other structures	4.2	4	5.5	3	0.7	2	(0.2)	26
Machinery and equipment	14.0	2	19.9	4	1.5	1	1.1	8

See footnotes at end of table.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977—Con.

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Men's and boys' separate trousers (SIC 2327)		Men's and boys' work clothing (SIC 2328)		Men's and boys' clothing, n.e.c. (SIC 2329)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	(1.1)	27	2.8	13	0.7	4
Response coverage ratio[2] (percent)	65.1	(X)	48.9	(X)	52.0	(X)
Machinery	7.1	9	7.7	8	(1.9)	46
Response coverage ratio[2] (percent)	55.5	(X)	45.5	(X)	60.3	(X)
Cost of purchased communication services	2.2	14	4.3	10	2.2	14
Response coverage ratio[2] (percent)	51.4	(X)	58.2	(X)	54.4	(X)
Rental payments	12.2	5	19.0	3	9.2	5
Buildings and other structures	6.2	8	10.3	4	7.0	6
Machinery and equipment	6.0	6	8.6	5	2.2	8
Supplemental labor costs	64.0	1	103.3	1	40.8	6
Legal costs	37.7	2	60.6	1	25.2	8
Voluntary costs	26.4	2	42.7	2	15.7	6
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning of year	75.6	3	124.2	3	29.1	7
New capital expenditures	4.5	8	14.3	5	3.5	7
Used capital expenditures	0.7	12	3.6	3	(0.2)	33
Retirements	6.1	5	7.9	10	1.7	12
End of year	74.7	3	134.2	2	31.0	7
Machinery and equipment:						
Beginning of year	116.4	3	183.9	2	67.1	5
New capital expenditures	16.6	7	30.8	6	13.4	6
Automobiles, trucks, etc., for highway use[3]	(0.6)	(A)	(1.0)	(A)	(0.4)	(A)
Computers and peripheral data processing equipment[3]	(0.9)	(A)	(1.4)	(A)	(0.2)	(A)
All other[3]	(11.1)	(A)	(24.0)	(A)	(6.2)	(A)
New machinery and equipment, n.s.k.[4]	(4.0)	(A)	(4.4)	(A)	(6.7)	(A)
Used capital expenditures	(0.7)	22	3.3	2	(0.8)	15
Retirements	8.3	6	12.5	12	5.1	9
End of year	125.4	3	205.5	2	76.3	5
Total gross value of depreciable assets:						
Beginning of year	192.0	3	308.2	2	96.2	4
New capital expenditures	21.1	6	45.1	5	16.9	5
Used capital expenditures	1.5	13	6.8	2	(1.0)	17
Retirements	14.4	5	20.4	11	6.8	9
End of year	200.1	3	339.7	2	107.3	4
Depreciation charges during 1977	14.9	3	26.3	2	10.2	5
Buildings and other structures	3.4	4	5.9	3	1.5	5
Machinery and equipment	11.5	3	20.4	2	8.8	6

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2311, MEN'S AND BOYS' SUITS AND COATS												
Total	-	737	98.7	822.2	86.2	152.9	645.5	1 574.4	1 232.4	2 767.5	25.8	470.5
Establishments with an average of—												
1 to 4 employees	E8	137	0.2	1.8	0.2	0.4	1.3	(S)	3.9	7.5	(Z)	1.3
5 to 9 employees	E3	59	0.4	3.9	0.4	0.7	2.7	8.0	12.2	20.2	0.1	3.6
10 to 19 employees	E1	74	1.0	9.5	0.8	1.5	6.0	19.6	26.5	45.2	0.2	8.3
20 to 49 employees	E1	106	3.7	31.5	2.9	4.9	19.6	71.0	126.7	196.2	0.8	33.0
50 to 99 employees	E1	98	6.9	54.5	6.1	10.4	39.9	99.7	117.2	213.0	3.2	33.0
100 to 249 employees	-	145	24.5	190.0	21.5	38.2	151.5	337.7	309.7	642.3	6.4	96.2
250 to 499 employees	-	80	27.5	227.5	24.2	43.0	182.4	398.9	249.9	638.3	7.9	108.1
500 to 999 employees	-	27	17.9	148.8	16.1	29.2	123.0	345.5	185.3	516.9	4.1	81.3
1,000 to 2,499 employees	-	10	(16.5)	(154.7)	(14.2)	(24.7)	(119.0)	(295.4)	(201.2)	(488.0)	(3.1)	(105.6)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	141	0.7	5.8	0.6	1.0	4.2	10.4	10.2	20.6	0.1	3.9
Industry 2311-11, Manufacturers												
Total	-	409	60.6	526.3	52.5	92.8	413.1	1 070.5	739.8	1 775.3	14.0	341.1
Establishments with an average of—												
1 to 4 employees	E8	115	0.2	1.4	0.2	0.2	1.0	(S)	2.0	4.6	(Z)	0.9
5 to 9 employees	E7	41	0.3	2.6	0.3	0.4	1.9	4.7	4.1	8.8	(Z)	2.0
10 to 19 employees	E5	35	0.5	4.2	0.4	0.7	3.2	7.5	6.2	13.6	0.1	2.6
20 to 49 employees	E4	29	1.0	8.3	0.9	1.4	6.3	15.4	11.3	26.6	0.1	4.7
50 to 99 employees	E2	43	3.1	23.6	2.7	4.6	17.9	42.0	31.4	71.1	0.7	14.8
100 to 249 employees	E1	70	11.9	100.7	10.1	18.1	77.3	193.4	173.7	361.5	3.5	67.9
250 to 499 employees	-	46	15.4	129.2	13.3	23.5	101.0	250.1	165.9	405.8	4.8	75.2
500 to 999 employees	-	21	14.1	122.4	12.6	22.9	101.2	301.3	174.5	462.5	2.0	77.8
1,000 to 2,499 employees	-	8	(14.2)	(133.8)	(12.2)	(20.8)	(103.2)	(258.5)	(170.7)	(420.8)	(2.8)	(95.3)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	116	0.5	4.5	0.5	0.8	3.4	8.0	6.4	14.4	0.1	2.9
Industry 2311-22, Jobbers												
Total	-	83	5.3	63.3	3.2	6.3	27.6	164.5	432.7	594.2	4.3	95.7
Establishments with an average of—												
1 to 4 employees	E7	12	(Z)	0.3	(Z)	(Z)	0.1	0.7	1.8	2.5	(Z)	0.4
5 to 9 employees	-	8	0.1	0.7	(Z)	0.1	0.3	2.3	7.9	10.1	0.1	1.5
10 to 19 employees	-	15	0.2	2.9	0.1	0.2	0.8	8.7	18.8	26.6	(0.1)	5.4
20 to 49 employees	-	26	0.8	11.1	0.3	0.7	2.8	39.4	113.2	151.2	(D)	27.2
50 to 99 employees	-	12	0.8	10.6	0.5	1.0	4.2	31.0	82.0	110.8	2.1	16.0
100 to 249 employees	-	5	0.9	9.7	0.4	1.0	3.9	20.5	113.1	134.6	0.5	17.0
250 to 499 employees	-	4	(2.5)	(28.0)	(1.8)	(3.4)	(15.4)	(61.9)	(96.0)	(158.5)	(1.5)	(28.2)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	12	0.1	0.6	(Z)	0.1	0.3	1.6	3.6	5.1	(Z)	0.9
Industry 2311-33, Independent Contractors												
Total	-	171	18.0	126.2	16.7	28.9	110.3	186.9	36.6	222.5	3.4	15.7
Establishments with an average of—												
1 to 4 employees	E2	10	(Z)	0.2	(Z)	0.1	0.2	0.3	0.1	0.3	(0.2)	(Z)
5 to 9 employees	E1	9	(1.9)	(12.8)	(1.8)	(3.0)	(11.1)	(18.0)	(3.7)	(21.7)	(D)	(1.3)
10 to 19 employees	E1	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E1	43	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	E1	30	2.1	13.7	2.0	3.3	12.2	19.3	2.6	21.7	0.4	1.4
100 to 249 employees	E1	40	6.5	46.6	6.0	10.3	40.8	75.5	14.7	90.1	0.8	7.2
250 to 499 employees	-	12	4.3	30.5	3.9	6.7	26.1	41.3	4.9	45.8	3.4	2.4
500 to 999 employees	-	3	(3.2)	(22.4)	(3.0)	(5.5)	(20.0)	(32.6)	(10.7)	(42.9)	(D)	(3.4)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	13	0.1	0.7	0.1	0.2	0.6	0.9	0.2	1.0	(Z)	0.1
Industry 2311-44, Multiplant Company Contractors												
Total	-	74	14.8	106.4	13.7	24.9	94.4	152.4	23.3	175.4	4.1	17.9
Establishments with an average of—												
5 to 9 employees	E1	1	(0.3)	(2.3)	(0.3)	(0.5)	(1.9)	(2.7)	(0.3)	(3.1)	(0.3)	(0.2)
10 to 19 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E1	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	-	13	1.0	6.5	0.9	1.6	5.6	7.4	1.3	9.4	(D)	0.9
100 to 249 employees	-	30	5.3	33.0	4.9	8.9	29.4	48.3	8.2	56.0	1.5	4.1
250 to 499 employees	-	18	(8.2)	(64.7)	(7.6)	(13.9)	(57.5)	(94.1)	(13.6)	(106.9)	(2.3)	(12.7)
500 to 999 employees	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
INDUSTRY 2321, MEN'S AND BOYS' SHIRTS AND NIGHTWEAR												
Total	-	928	114.7	711.3	103.0	184.1	569.9	1 445.7	1 539.5	2 934.6	25.9	501.4
Establishments with an average of—												
1 to 4 employees	E3	114	0.2	1.7	0.2	0.3	1.4	(S)	6.7	10.3	0.1	1.1
5 to 9 employees	E2	57	0.4	3.4	0.3	0.6	1.9	8.3	24.8	33.3	0.2	3.0
10 to 19 employees	E3	78	1.1	8.1	0.9	1.6	5.3	22.8	31.1	53.7	0.4	6.2
20 to 49 employees	E1	156	5.0	37.2	4.0	7.4	22.2	134.1	236.7	336.8	1.6	85.2
50 to 99 employees	-	147	10.8	71.2	9.2	16.1	49.9	141.7	248.8	392.2	2.7	52.5
100 to 249 employees	-	229	37.5	219.6	34.2	60.6	185.6	382.7	291.2	675.4	8.9	84.4
250 to 499 employees	-	121	41.0	244.2	37.7	66.9	205.4	478.4	430.1	906.9	7.7	129.1
500 to 999 employees	-	22	14.4	96.0	12.1	22.7	70.4	225.3	192.4	400.0	(4.2)	97.9
1,000 to 2,499 employees	-	4	4.5	30.1	4.3	7.9	27.8	57.5	77.7	126.1	(D)	42.0
Covered by administrative records[2]	E0	132	0.8	4.8	0.7	1.3	4.0	9.0	8.6	17.7	0.2	2.4

See footnotes at end of table

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
Industry 2321-11, Manufacturers												
Total	-	**469**	**58.4**	**366.0**	**52.9**	**95.1**	**303.3**	**793.0**	**747.7**	**1 531.3**	**16.8**	**265.6**
Establishments with an average of—												
1 to 4 employees	E5	95	(2.5)	(16.3)	(2.3)	(4.1)	(13.4)	(24.7)	(32.4)	(66.1)	(0.8)	(9.3)
5 to 9 employees	E7	40	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E6	43	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E5	49	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	E2	53	4.1	26.7	3.5	6.5	20.5	55.6	62.2	118.6	1.0	18.2
100 to 249 employees	-	106	17.1	103.5	15.5	27.7	86.6	220.1	208.9	430.2	5.5	61.9
250 to 499 employees	-	68	23.0	140.0	21.2	37.9	118.3	307.1	284.7	583.3	6.4	91.3
500 to 999 employees	-	11	(11.7)	(79.5)	(10.4)	(18.8)	(64.5)	(185.5)	(159.6)	(333.1)	(3.1)	(84.9)
1,000 to 2,499 employees	-	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	107	0.6	3.5	0.5	1.0	2.9	7.2	7.4	14.5	0.1	2.1
Industry 2321-22, Jobbers												
Total	-	**108**	**7.4**	**74.5**	**4.5**	**8.4**	**29.9**	**287.2**	**734.6**	**979.9**	**2.7**	**208.4**
Establishments with an average of—												
1 to 4 employees	E1	8	(Z)	0.2	(Z)	(Z)	0.1	1.2	3.4	4.5	(Z)	0.4
5 to 9 employees	-	13	0.1	1.6	(Z)	0.1	0.4	4.9	21.4	26.4	0.1	2.1
10 to 19 employees	E1	16	0.2	2.7	0.1	0.2	0.7	12.8	22.8	35.5	0.1	3.8
20 to 49 employees	-	38	1.2	15.1	0.6	1.3	3.5	94.6	214.8	275.0	0.7	78.1
50 to 99 employees	-	17	1.2	14.0	0.6	1.0	3.2	45.4	180.1	226.4	0.8	31.6
100 to 249 employees	-	9	1.5	12.7	1.2	2.1	8.0	29.5	58.6	87.9	0.5	12.4
250 to 499 employees	-	5	(3.1)	(28.2)	(1.9)	(3.7)	(14.0)	(98.9)	(233.5)	(324.2)	(0.5)	(80.1)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	6	(Z)	0.2	(Z)	(Z)	0.1	0.3	1.0	1.2	(Z)	0.2
Industry 2321-33, Contractors												
Total	-	**192**	**16.0**	**88.2**	**14.7**	**25.6**	**74.9**	**119.0**	**19.8**	**138.6**	**2.4**	**6.9**
Establishments with an average of—												
1 to 4 employees	E1	10	(2.3)	(13.0)	(2.1)	(3.5)	(11.2)	(19.4)	(4.2)	(23.5)	(0.3)	(1.5)
5 to 9 employees	E6	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E3	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	-	59	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	-	53	3.8	21.3	3.5	5.9	18.1	27.7	4.2	31.8	0.7	1.7
100 to 249 employees	E1	36	5.9	32.4	5.4	9.3	26.8	44.3	8.3	52.6	1.2	2.6
250 to 499 employees	-	10	(4.1)	(21.5)	(3.8)	(6.9)	(18.8)	(27.6)	(3.1)	(30.8)	(0.3)	(1.1)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	19	0.2	1.1	0.2	0.3	0.9	1.6	0.3	1.9	(Z)	0.1
Industry 2321-44, Multiplant Company Contractors												
Total	-	**159**	**32.9**	**182.7**	**30.9**	**55.0**	**161.7**	**246.6**	**37.4**	**284.8**	**4.0**	**20.6**
Establishments with an average of—												
1 to 4 employees	-	1	(0.3)	(1.5)	(0.3)	(0.6)	(1.4)	(2.7)	(0.4)	(3.1)	(0.3)	(0.3)
20 to 49 employees	-	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	-	24	1.7	9.1	1.6	2.6	8.1	13.1	2.3	15.5	0.2	1.0
100 to 249 employees	-	78	13.0	71.0	12.2	21.5	64.2	88.7	15.4	104.7	1.7	7.5
250 to 499 employees	-	38	(18.0)	(101.1)	(16.8)	(30.3)	(88.1)	(142.1)	(19.3)	(161.6)	(1.7)	(11.7)
500 to 999 employees	-	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
INDUSTRY 2322, MEN'S AND BOYS' UNDERWEAR												
Total	-	**76**	**15.1**	**92.2**	**13.7**	**23.8**	**79.0**	**218.2**	**205.1**	**419.8**	**2.6**	**55.1**
Establishments with an average of—												
1 to 4 employees	E0	9	(Z)	0.1	(Z)	(Z)	(Z)	(S)	0.2	0.3	(1.4)	(Z)
5 to 9 employees	E0	3	(Z)	0.1	(Z)	(Z)	0.1	0.4	0.4	0.8	(D)	0.1
10 to 19 employees	E3	5	0.1	0.6	0.1	0.1	0.3	1.4	1.4	2.7	(D)	0.3
20 to 49 employees	E3	12	0.4	2.2	0.3	0.5	1.4	3.2	3.5	6.8	(D)	1.1
50 to 99 employees	-	9	0.6	4.0	0.6	1.0	3.0	5.2	6.2	11.4	0.1	2.5
100 to 249 employees	-	10	1.5	9.1	1.4	2.5	8.1	18.3	17.0	34.9	0.1	4.2
250 to 499 employees	-	19	6.1	36.2	5.8	10.2	30.9	68.3	68.3	137.1	(1.0)	15.0
500 to 999 employees	-	8	(6.3)	(39.9)	(5.6)	(9.5)	(35.1)	(122.3)	(108.1)	(225.8)	(D)	(31.8)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	14	0.1	0.7	0.1	0.2	0.6	1.8	1.6	3.5	(Z)	0.5
INDUSTRY 2323, MEN'S AND BOYS' NECKWEAR												
Total	E3	**207**	**6.3**	**57.5**	**5.1**	**8.7**	**33.4**	**117.5**	**108.9**	**223.8**	**2.6**	**29.6**
Establishments with an average of—												
1 to 4 employees	E9	77	0.1	0.9	0.1	0.1	0.6	1.2	1.8	3.7	(Z)	0.5
5 to 9 employees	E5	22	0.1	1.2	0.1	0.2	0.8	2.5	2.9	5.4	(Z)	0.8
10 to 19 employees	E2	27	0.4	3.2	0.3	0.5	2.0	5.8	5.4	11.2	0.1	1.5
20 to 49 employees	E1	46	1.5	12.6	1.2	2.0	7.6	27.2	26.2	53.1	0.2	6.4
50 to 99 employees	E2	25	1.9	18.3	1.6	2.8	10.6	34.5	33.7	67.6	(2.3)	7.9
100 to 249 employees	E5	6	0.7	6.3	0.6	0.9	3.8	15.2	13.8	28.1	(D)	4.5
250 to 499 employees	E3	2	(1.6)	(15.0)	(1.3)	(2.2)	(8.0)	(31.1)	(25.0)	(54.7)	(D)	(7.9)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	74	0.1	1.3	0.1	0.2	0.8	2.7	2.6	5.3	(Z)	0.7

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2327, MEN'S AND BOYS' SEPARATE TROUSERS												
Total	-	514	70.9	474.0	61.9	107.6	372.0	845.6	851.7	1 718.0	22.8	281.9
Establishments with an average of—												
1 to 4 employees	E3	80	(0.3)	(11.8)	(0.3)	(0.6)	(10.4)	(S)	(12.0)	(19.6)	(1.1)	(3.5)
5 to 9 employees	E3	35	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E2	53	0.7	5.7	0.6	1.0	3.2	13.0	25.1	37.4	(D)	5.1
20 to 49 employees	-	63	2.0	14.6	1.6	2.7	8.7	40.5	48.6	88.2	0.9	10.6
50 to 99 employees	-	75	5.5	38.6	4.8	8.3	30.1	78.9	111.4	190.4	2.7	26.4
100 to 249 employees	-	116	19.0	118.2	17.4	29.7	98.0	195.1	98.0	288.8	5.2	34.8
250 to 499 employees	-	61	21.4	138.2	19.4	34.9	114.5	266.4	213.4	474.3	7.9	82.4
500 to 999 employees	-	17	10.0	74.0	9.0	16.7	59.2	155.8	226.0	364.5	(5.0)	74.9
1,000 to 2,499 employees	-	1	(12.0)	(72.8)	(8.7)	(13.8)	(47.9)	(102.0)	(144.2)	(254.8)	(D)	(44.2)
2,500 employees or more	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	101	0.6	3.7	0.5	0.9	2.8	6.3	7.1	13.4	0.2	2.6
Industry 2327-11, Manufacturers												
Total	-	244	40.8	264.3	34.8	58.9	203.5	463.4	463.0	942.6	11.2	189.8
Establishments with an average of—												
1 to 4 employees	E3	57	(1.5)	(12.2)	(1.3)	(2.2)	(9.6)	(13.8)	(20.1)	(46.4)	(2.3)	(6.7)
5 to 9 employees	E9	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E6	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E1	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	E1	18	1.3	8.9	1.1	2.0	6.7	17.1	14.3	31.3	(D)	6.2
100 to 249 employees	-	41	7.1	44.0	6.5	10.7	35.9	89.7	66.8	153.8	2.3	22.4
250 to 499 employees	-	39	14.0	90.7	12.6	22.4	73.2	190.9	155.6	342.8	4.9	65.9
500 to 999 employees	-	9	4.9	35.7	4.6	7.9	30.2	49.9	62.1	113.5	(1.7)	24.5
1,000 to 2,499 employees	-	1	(12.0)	(72.8)	(8.7)	(13.8)	(47.9)	(102.0)	(144.2)	(254.8)	(D)	(44.2)
2,500 employees or more	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	81	0.5	2.9	0.4	0.7	2.3	5.2	5.6	10.8	0.2	2.2
Industry 2327-22, Jobbers												
Total	-	56	3.8	42.0	2.5	5.7	19.7	167.9	359.3	516.3	5.6	86.8
Establishments with an average of—												
1 to 4 employees	E2	10	(0.1)	(1.5)	(Z)	(0.1)	(0.4)	(4.0)	(7.9)	(11.9)	(1.7)	(2.4)
5 to 9 employees	E2	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	-	11	0.2	2.1	0.1	0.2	0.4	5.3	19.7	24.2	(D)	3.1
20 to 49 employees	-	14	0.4	4.7	0.2	0.5	1.2	15.6	35.8	51.0	0.1	6.2
50 to 99 employees	-	5	(0.7)	(10.7)	(0.3)	(0.7)	(4.6)	(41.3)	(103.6)	(144.5)	(D)	(17.6)
100 to 249 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	-	2	(2.5)	(22.9)	(1.9)	(4.4)	(13.2)	(101.7)	(202.3)	(284.7)	(3.8)	(54.5)
500 to 999 employees	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	6	(Z)	0.3	(Z)	(Z)	0.1	0.5	1.4	1.8	(Z)	0.3
Industry 2327-33, Independent Contractors												
Total	-	118	9.0	54.1	8.3	13.7	46.5	75.7	15.0	90.9	1.9	5.6
Establishments with an average of—												
1 to 4 employees	E8	14	(Z)	0.1	(Z)	(Z)	0.1	0.1	(Z)	0.2	(Z)	(Z)
5 to 9 employees	E3	8	0.1	0.4	0.1	0.1	0.3	0.9	0.2	1.1	(Z)	0.1
10 to 19 employees	E3	9	0.1	0.9	0.1	0.2	0.8	1.1	0.2	1.3	(Z)	0.1
20 to 49 employees	E1	17	0.5	3.0	0.5	0.7	2.6	4.8	1.1	5.9	0.1	0.4
50 to 99 employees	E1	35	2.6	15.6	2.3	3.8	13.3	20.6	3.0	23.5	0.4	1.6
100 to 249 employees	-	32	(5.7)	(34.0)	(5.3)	(8.9)	(29.5)	(48.3)	(10.5)	(58.8)	(1.4)	(3.5)
250 to 499 employees	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	14	0.1	0.5	0.1	0.1	0.4	0.6	0.1	0.7	(Z)	0.1
Industry 2327-44, Multiplant Company Contractors												
Total	-	96	17.3	113.6	16.3	29.2	102.2	138.6	31.3	168.2	4.2	19.6
Establishments with an average of—												
1 to 4 employees	-	9	(0.2)	(7.3)	(0.2)	(0.3)	(7.0)	(1.9)	(0.7)	(3.1)	(0.3)	(0.2)
10 to 19 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	-	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	E1	17	1.3	7.4	1.2	2.1	6.5	9.1	2.1	11.5	0.1	1.0
100 to 249 employees	-	41	6.9	42.0	6.4	11.4	37.2	55.9	11.8	66.9	1.5	6.6
250 to 499 employees	-	17	(9.0)	(56.9)	(8.5)	(15.5)	(51.6)	(71.6)	(16.7)	(86.7)	(2.3)	(11.8)
500 to 999 employees	-	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
INDUSTRY 2328, MEN'S AND BOYS' WORK CLOTHING												
Total	-	656	113.7	719.4	101.6	183.7	589.9	1 765.4	1 913.2	3 641.9	44.1	477.7
Establishments with an average of—												
1 to 4 employees	E1	37	(3.2)	(21.3)	(2.8)	(5.2)	(16.5)	(104.2)	(180.7)	(284.9)	(1.0)	(27.4)
5 to 9 employees	E5	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E6	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E2	76	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	-	115	8.5	51.3	7.5	13.3	40.2	99.4	121.5	217.5	3.2	33.1
100 to 249 employees	-	235	39.0	233.3	35.4	63.3	200.6	486.3	374.3	854.8	19.2	108.2
250 to 499 employees	-	114	39.6	253.8	36.2	65.0	211.8	568.6	565.7	1 118.3	11.0	162.8
500 to 999 employees	-	29	18.3	118.6	16.5	30.0	100.9	355.0	355.9	699.2	6.3	78.6
1,000 to 2,499 employees	-	4	(5.1)	(41.0)	(3.1)	(6.9)	(19.9)	(152.0)	(315.1)	(467.0)	(3.5)	(67.6)
Covered by administrative records[2]	E0	62	0.6	3.7	0.6	1.0	3.1	8.8	10.4	19.2	0.2	2.4

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
Industry 2328-11, Manufacturers												
Total	-	**361**	**65.0**	**408.0**	**58.7**	**105.2**	**338.9**	**1 027.3**	**1 178.5**	**2 183.8**	**24.8**	**307.3**
Establishments with an average of—												
1 to 4 employees	E9	30	(Z)	0.2	(Z)	0.1	0.2	0.1	0.6	1.1	0.1	0.1
5 to 9 employees	E5	12	0.1	0.5	0.1	0.1	0.4	1.3	1.7	3.0	(Z)	0.4
10 to 19 employees	E9	18	0.3	1.5	0.2	0.4	1.2	3.7	4.0	7.7	0.1	1.0
20 to 49 employees	E3	44	1.5	10.6	1.3	2.6	8.1	23.6	29.8	53.4	0.5	6.6
50 to 99 employees	-	50	3.7	22.2	3.3	6.0	17.2	48.0	67.7	115.1	1.0	18.2
100 to 249 employees	-	114	18.7	112.6	16.9	30.8	94.5	221.8	286.2	510.2	10.5	69.0
250 to 499 employees	-	70	24.4	154.6	22.3	39.7	130.5	395.4	453.6	832.4	6.9	130.5
500 to 999 employees	-	21	(16.3)	(105.8)	(14.6)	(25.5)	(86.8)	(333.4)	(334.9)	(661.1)	(5.8)	(81.5)
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	50	0.5	3.0	0.5	0.8	2.5	7.3	8.0	15.3	0.1	2.0
Industry 2328-22, Jobbers												
Total	-	**41**	**7.1**	**61.4**	**4.6**	**10.6**	**30.8**	**318.3**	**677.8**	**983.8**	**5.5**	**139.0**
Establishments with an average of—												
1 to 4 employees	-	5	(0.3)	(2.1)	(0.2)	(0.4)	(1.0)	(67.3)	(141.7)	(208.7)	(0.2)	(18.2)
5 to 9 employees	E0	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E2	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	-	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	-	9	0.6	5.0	0.4	0.7	2.6	16.5	47.6	62.1	(D)	11.1
100 to 249 employees	-	6	1.1	8.0	1.0	1.9	5.8	36.7	54.3	85.1	(5.2)	21.6
250 to 499 employees	-	6	1.9	17.6	1.5	2.9	9.8	59.2	99.7	159.6	(D)	25.4
500 to 999 employees	-	2	(3.3)	(28.6)	(1.6)	(4.7)	(11.6)	(138.6)	(334.3)	(468.3)	(D)	(62.7)
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	6	0.1	0.4	0.1	0.1	0.3	1.0	2.4	3.4	(Z)	0.4
Industry 2328-33, Independent Contractors												
Total	-	**91**	**10.0**	**58.9**	**9.1**	**16.1**	**50.9**	**81.4**	**18.6**	**99.1**	**2.6**	**7.5**
Establishments with an average of—												
1 to 4 employees	E5	2	(Z)	(0.2)	(Z)	(0.1)	(0.1)	(0.3)	(Z)	(0.4)	(0.1)	(Z)
5 to 9 employees	E4	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E3	5	0.1	0.5	0.1	0.1	0.5	0.7	0.3	0.9	(D)	0.1
20 to 49 employees	-	19	0.6	3.5	0.6	1.0	3.0	5.0	1.3	6.2	(D)	0.6
50 to 99 employees	E1	21	1.5	9.0	1.3	2.2	7.6	11.4	2.0	13.1	0.4	1.3
100 to 249 employees	-	32	4.7	27.9	4.3	7.5	24.1	39.8	11.6	50.9	1.2	4.1
250 to 499 employees	-	9	3.0	17.8	2.8	5.1	15.5	24.3	3.4	27.5	0.9	1.4
Covered by administrative records[2]	E0	6	0.1	0.3	0.1	0.1	0.3	0.5	0.1	0.6	(Z)	0.1
Industry 2328-44, Multiplant Company Contractors												
Total	-	**153**	**31.6**	**191.0**	**29.2**	**51.9**	**169.4**	**338.5**	**38.4**	**375.2**	**11.2**	**23.9**
Establishments with an average of—												
20 to 49 employees	-	10	0.3	2.1	0.3	0.5	1.9	2.3	1.3	3.6	(1.8)	0.2
50 to 99 employees	-	35	2.7	15.0	2.5	4.3	12.8	23.5	4.1	27.3	(D)	2.6
100 to 249 employees	-	83	14.5	84.9	13.3	23.1	76.2	188.0	22.2	208.6	6.5	13.6
250 to 499 employees	-	29	10.3	63.7	9.6	17.3	56.0	89.7	9.0	98.8	(2.9)	5.5
500 to 999 employees	-	6	3.8	25.3	3.4	6.6	22.5	35.0	1.8	36.9	(D)	2.0
INDUSTRY 2329, MEN'S AND BOYS' CLOTHING, N.E.C.												
Total	-	**632**	**43.8**	**285.8**	**38.1**	**67.4**	**219.3**	**542.8**	**530.6**	**1 065.1**	**20.2**	**201.9**
Establishments with an average of—												
1 to 4 employees	E4	100	0.2	2.0	0.2	0.2	1.7	3.6	2.2	6.6	0.1	0.9
5 to 9 employees	E1	56	0.4	2.8	0.3	0.5	1.8	9.3	23.6	32.6	0.1	3.3
10 to 19 employees	E3	76	1.0	7.3	0.9	1.7	5.4	15.4	16.0	31.1	0.3	6.4
20 to 49 employees	E1	130	4.4	29.0	3.9	7.1	22.0	55.1	47.7	102.6	1.0	14.9
50 to 99 employees	-	130	9.2	58.5	8.2	14.3	46.8	109.4	80.5	188.7	3.2	28.3
100 to 249 employees	-	107	17.0	111.6	14.9	26.4	86.3	213.8	219.7	429.2	7.7	83.1
250 to 499 employees	-	30	(11.6)	(74.6)	(9.8)	(17.1)	(55.4)	(136.2)	(140.9)	(274.3)	(7.8)	(65.1)
500 to 999 employees	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	142	1.0	6.3	0.9	1.5	4.8	11.6	9.2	20.8	0.2	3.9
Industry 2329-11, Manufacturers												
Total	-	**379**	**24.7**	**165.4**	**21.2**	**37.5**	**124.8**	**321.0**	**337.9**	**650.2**	**10.7**	**144.5**
Establishments with an average of—												
1 to 4 employees	E5	88	0.1	1.8	0.1	0.2	1.6	3.2	1.3	5.0	(Z)	0.6
5 to 9 employees	E8	36	0.2	1.6	0.2	0.4	1.2	2.8	2.4	5.3	0.1	1.0
10 to 19 employees	E5	47	0.6	4.3	0.5	1.0	3.2	9.1	6.6	15.5	0.2	2.9
20 to 49 employees	E3	67	2.2	14.8	1.9	3.3	11.5	28.9	28.6	57.1	0.7	9.8
50 to 99 employees	-	62	4.4	29.9	3.8	6.6	22.2	58.3	57.4	114.2	2.5	25.3
100 to 249 employees	-	58	9.4	63.6	8.1	14.7	48.5	122.1	120.6	238.4	4.4	48.3
250 to 499 employees	-	19	(7.7)	(49.4)	(6.5)	(11.3)	(36.6)	(96.5)	(121.0)	(214.7)	(2.8)	(56.4)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	120	0.8	5.0	0.7	1.2	3.8	9.2	7.5	16.7	0.2	3.4

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
Industry 2329-22, Jobbers												
Total	-	**37**	**2.2**	**19.9**	**1.4**	**2.9**	**8.6**	**75.4**	**165.7**	**241.1**	**2.8**	**44.0**
Establishments with an average of—												
1 to 4 employees	E4	7	(Z)	0.1	(Z)	(Z)	0.1	0.1	0.9	1.3	(Z)	0.3
5 to 9 employees	-	8	0.1	0.7	(Z)	(Z)	0.1	5.7	21.0	26.4	(Z)	2.2
10 to 19 employees	-	5	0.1	1.0	(Z)	0.1	0.2	3.4	7.6	11.0	0.1	2.9
20 to 49 employees	-	5	0.2	1.7	(Z)	0.2	-	8.4	17.1	25.8	(2.7)	4.4
50 to 99 employees	-	2	0.1	1.1	0.1	0.1	0.4	9.0	12.1	21.1	(D)	0.4
100 to 249 employees	-	9	(1.7)	(15.3)	(1.2)	(2.5)	(7.8)	(48.8)	(106.9)	(155.5)	(D)	(33.8)
250 to 499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	7	(Z)	0.3	(Z)	(Z)	0.1	0.8	1.6	2.3	(Z)	0.4
Industry 2329-33, Independent Contractors												
Total	-	**152**	**9.9**	**50.8**	**9.1**	**15.8**	**51.0**	**84.5**	**13.1**	**97.6**	**5.8**	**9.5**
Establishments with an average of—												
1 to 4 employees	E3	4	(0.3)	(2.1)	(0.3)	(0.6)	(1.8)	(3.1)	(0.4)	(3.5)	(5.4)	(0.1)
5 to 9 employees	E3	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E3	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E1	53	1.9	11.5	1.7	3.1	9.6	16.5	1.8	18.3	(D)	0.6
50 to 99 employees	-	38	2.6	15.1	2.4	4.1	13.0	20.7	3.3	24.0	(0.4)	0.9
100 to 249 employees	-	25	(5.0)	(32.2)	(4.6)	(8.0)	(26.5)	(44.3)	(7.5)	(51.8)	(D)	(7.8)
250 to 499 employees	-	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	15	0.2	1.0	0.2	0.3	0.9	1.6	0.1	1.8	(Z)	(Z)
Industry 2329-44, Multiplant Company Contractors												
Total	-	**63**	**7.0**	**39.0**	**6.3**	**11.1**	**34.3**	**58.8**	**11.0**	**70.3**	**0.9**	**3.5**
Establishments with an average of—												
1 to 4 employees	-	1	(0.1)	(0.6)	(0.1)	(0.2)	(0.6)	(7.0)	(1.7)	(2.5)	(0.1)	(0.5)
5 to 9 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	-	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	-	5	0.2	1.0	0.2	0.5	0.8	1.2	0.1	1.3	(Z)	(Z)
50 to 99 employees	-	27	2.0	11.7	1.8	3.4	10.6	18.3	4.8	23.5	0.2	1.2
100 to 249 employees	-	15	2.3	13.2	2.2	3.6	11.9	22.4	3.1	25.8	0.3	1.3
250 to 499 employees	-	6	(2.4)	(12.5)	(2.0)	(3.4)	(10.4)	(15.9)	(1.5)	(17.3)	(0.3)	(0.5)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2311	**Men's and boys' suits and coats:**										
	Entire industry	737	98.7	822.2	86.2	152.9	645.5	1 574.4	1 232.4	2 767.5	25.8
	Establishments with 75 percent specialization or more	649	91.3	764.2	79.9	142.1	605.3	1 516.6	1 129.9	2 602.8	23.3
23111	Men's suits:										
	Establishments with this product class primary	151	44.3	406.1	37.8	67.0	309.8	867.8	771.7	1 610.4	13.1
	Establishments with 75 percent specialization or more in class	90	25.2	229.0	21.9	39.4	178.9	443.8	412.5	839.4	6.7
23112	Men's overcoats and topcoats:										
	Establishments with this product class primary	38	5.0	41.8	4.0	7.0	27.8	84.8	88.3	166.4	1.1
	Establishments with 75 percent specialization or more in class	27	2.9	25.6	2.4	4.3	17.1	47.1	59.8	104.8	(S)
23113	Men's tailored dress and sport coats and jackets:										
	Establishments with this product class primary	58	8.7	76.7	7.4	13.1	57.6	158.4	171.9	326.8	1.3
	Establishments with 75 percent specialization or more in class	41	6.3	51.3	5.6	9.8	41.5	98.4	83.0	178.4	0.5
23114	Boys' suits, coats, and tailored jackets:										
	Establishments with this product class primary	25	4.1	33.2	3.4	6.4	22.5	65.9	80.3	142.8	1.7
	Establishments with 75 percent specialization or more in class	15	2.3	18.4	1.9	3.9	12.1	34.3	53.4	85.6	1.3
23119	Commission work on men's and boys' suits and coats:										
	Establishments with this product class primary	210	30.8	217.4	28.6	50.6	191.8	317.7	54.4	371.4	7.4
	Establishments with 75 percent specialization or more in class	197	29.1	205.6	27.0	47.8	181.9	296.6	45.5	341.8	6.8
2321	**Men's and boys' shirts and nightwear:**										
	Entire industry	928	114.7	711.3	103.0	184.1	569.9	1 445.7	1 539.5	2 934.6	25.9
	Establishments with 75 percent specialization or more	831	102.8	636.3	92.5	164.9	511.3	1 304.2	1 321.2	2 577.1	23.4
23212	Men's and boys' knit outerwear sport shirts:										
	Establishments with this product class primary	150	24.2	151.7	21.6	39.6	122.4	326.9	417.0	736.3	6.5
	Establishments with 75 percent specialization or more in class	116	19.3	121.6	17.1	31.6	96.1	255.9	348.9	598.4	5.1
23214	Men's and boys' dress and sport shirts:										
	Establishments with this product class primary	187	35.1	245.3	30.0	53.0	177.5	656.7	881.4	1 488.6	10.4
	Establishments with 75 percent specialization or more in class	162	28.8	200.5	25.0	43.5	148.3	532.6	683.1	1 184.9	9.0
23215	Men's and boys' nightwear:										
	Establishments with this product class primary	23	3.4	20.9	3.0	5.5	15.2	44.4	96.8	141.5	0.4
	Establishments with 75 percent specialization or more in class	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23219	Contract work on men's and boys' shirts and nightwear:										
	Establishments with this product class primary	291	44.8	249.0	41.8	73.9	217.9	336.2	49.4	386.1	6.1
	Establishments with 75 percent specialization or more in class	262	40.3	222.9	37.5	66.2	194.5	299.2	42.6	342.3	5.3
2322	**Men's and boys' underwear:**										
	Entire industry	76	15.1	92.2	13.7	23.8	79.0	218.2	205.1	419.8	2.6
	Establishments with 75 percent specialization or more	55	10.6	63.9	9.4	16.1	53.4	173.3	176.6	346.2	1.9
23221	Men's and boys' knit and woven underwear:										
	Establishments with this product class primary	41	11.3	68.2	10.1	17.2	56.2	182.0	186.9	364.9	1.9
	Establishments with 75 percent specialization or more in class	37	10.3	61.9	9.1	15.5	51.7	168.7	172.4	337.4	1.8
2323	**Men's and boys' neckwear:**										
	Entire industry	207	6.3	57.5	5.1	8.7	33.4	117.5	108.9	223.8	2.6
	Establishments with 75 percent specialization or more	184	5.8	53.2	4.7	7.9	30.1	111.1	108.0	215.9	(D)
2327	**Men's and boys' separate trousers:**										
	Entire industry	514	70.9	474.0	61.9	107.6	372.0	845.6	878.6	1 718.0	22.8
	Establishments with 75 percent specialization or more	447	52.8	351.3	47.4	84.0	280.5	677.4	642.7	1 289.8	19.5
23271	Men's and boys' separate dress and sport trousers:										
	Establishments with this product class primary	169	42.3	287.4	35.2	60.8	207.5	613.5	799.3	1 397.0	14.0
	Establishments with 75 percent specialization or more in class	139	26.1	185.1	22.6	40.4	135.7	444.1	559.7	978.2	10.9
23279	Contract work on men's and boys' separate trousers:										
	Establishments with this product class primary	183	25.5	158.6	23.8	42.0	140.6	211.2	47.0	256.2	5.8
	Establishments with 75 percent specialization or more in class	167	22.9	142.7	21.4	37.7	125.9	191.9	44.7	234.6	5.5
2328	**Men's and boys' work clothing:**										
	Entire industry	656	113.7	719.4	101.6	183.7	589.9	1 765.4	1 913.2	3 641.9	44.1
	Establishments with 75 percent specialization or more	567	97.3	614.2	87.4	158.8	511.9	1 516.2	1 538.9	3 023.1	39.7
23281	Men's and boys' work shirts:										
	Establishments with this product class primary	28	5.1	29.8	4.8	8.4	24.8	58.0	74.6	129.5	1.1
	Establishments with 75 percent specialization or more in class	18	3.7	21.0	3.5	5.9	17.8	37.9	42.6	77.3	0.6
23283	Men's and boys' jeans and jean-cut casual slacks:										
	Establishments with this product class primary	170	43.2	286.1	37.9	70.4	223.0	963.1	1 316.5	2 255.5	21.9
	Establishments with 75 percent specialization or more in class	132	32.5	208.4	29.7	54.9	176.6	677.9	750.9	1 411.6	17.5
23284	Men's and boys' work clothing:										
	Establishments with this product class primary	123	22.8	146.7	19.8	35.5	116.9	306.8	420.9	721.6	7.4
	Establishments with 75 percent specialization or more in class	80	13.4	85.9	11.8	21.3	71.8	189.7	259.4	444.3	5.9
23289	Contract work on men's and boys' work clothing:										
	Establishments with this product class primary	215	37.4	225.3	34.3	60.8	198.1	375.1	43.2	414.5	12.0
	Establishments with 75 percent specialization or more in class	189	32.8	197.5	30.0	53.3	175.5	337.2	34.9	368.9	10.6
2329	**Men's and boys' clothing, n.e.c.:**										
	Entire industry	632	43.8	285.8	38.1	67.4	219.3	542.8	530.6	1 065.1	20.2
	Establishments with 75 percent specialization or more	407	23.5	156.1	20.1	35.1	114.5	295.9	326.3	624.7	9.1
23291	Men's and boys' heavy outerwear coats and jackets:										
	Establishments with this product class primary	115	13.8	94.9	11.9	20.9	69.8	202.4	258.7	460.2	6.4
	Establishments with 75 percent specialization or more in class	76	7.2	48.2	6.2	11.2	35.1	107.4	125.6	233.9	2.1
23292	Men's and boys' outerwear, n.e.c.:										
	Establishments with this product class primary	120	12.9	85.8	11.0	19.4	63.0	175.3	207.8	376.5	5.5
	Establishments with 75 percent specialization or more in class	80	8.2	53.4	6.9	11.9	38.4	91.1	115.2	207.3	3.7
23299	Commission work on men's and boys' clothing, n.e.c.:										
	Establishments with this product class primary	-	-	-	-	-	-	-	-	-	-
	Establishments with 75 percent specialization or more in class	-	-	-	-	-	-	-	-	-	-

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.
[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
2311	Men's and boys' suits and coats	1977	2,767.5	2,495.4	178.3	93.8	93	2,719.2	2,495.4	223.8	92
		1972	2,396.9	2,144.8	143.2	108.9	93	2,230.8	2,144.8	86.0	96
		1967	1,912.1	1,718.8	116.9	76.4	94	1,779.7	1,718.8	60.9	97
2321	Men's and boys' shirts and nightwear	1977	2,934.6	2,608.6	226.6	99.4	92	[1]2,836.5	2,608.6	227.9	[1]92
		1972	2,104.3	1,849.0	178.7	76.6	91	[2]2,210.5	1,849.0	[2]361.5	[2]83
		1967	1,448.2	1,242.6	131.6	74.0	80	[2]1,506.5	1,242.6	[2]263.9	[2]82
2322	Men's and boys' underwear	1977	419.8	320.0	49.5	50.3	87	[1]350.0	320.0	[1]30.0	[1]91
		1972	239.3	200.8	11.5	27.0	94	[2]582.8	200.8	[2]382.0	[2]34
		1967	180.2	157.8	10.4	12.0	94	[2]429.2	157.8	[2]271.4	[2]37
2323	Men's and boys' neckwear	1977	223.8	205.1	-	18.7	100	211.3	205.1	6.2	97
		1972	294.9	262.7	1.1	31.1	99	279.3	262.7	16.6	94
		1967	144.7	123.7	2.2	18.8	98	128.4	123.7	4.7	96
2327	Men's and boys' separate trousers	1977	1,718.0	1,438.1	264.2	15.7	84	1,631.4	1,438.1	193.3	88
		1972	1,745.0	1,513.6	208.2	23.2	87	1,775.9	1,569.8	206.1	88
		1967	1,132.4	980.9	116.1	35.4	89	1,195.2	980.9	214.3	82
2328	Men's and boys' work clothing	1977	3,641.9	3,188.3	391.5	62.1	89	3,394.3	3,188.3	206.0	94
		1972	1,738.0	1,438.2	253.5	46.3	85	1,624.8	1,438.2	186.6	89
		1967	1,155.0	923.6	179.0	52.4	84	1,023.1	923.6	99.5	90
2329	Men's and boys' clothing, n.e.c.	1977	1,065.1	741.7	156.0	167.4	83	[1]925.5	741.7	[1]183.8	[1]80
		1972	783.2	589.0	156.9	37.3	90	[2]962.6	589.0	[2]373.6	[2]61
		1967	677.7	513.7	126.3	37.7	80	[2]836.3	513.7	[2]322.6	[2]61

- Represents zero. n.e.c. Not elsewhere classified.
[1]In 1977, figures excluded shipments of men's and boys' apparel items made in knitting mills and were not comparable with figures for prior census years.
[2]Includes products of knitting mills (industry group 225) which are primary to industries 2253, 2254, and 2259. See Description of Industries in text for more detailed discussion.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneoud receipts	All industries	Men's and boys' suits and coats (SIC 2311)	Men's and boys' shirts and nightwear (SIC 2321)	Men's and boys' underwear (SIC 2322)	Men's and boys' neckwear (SIC 2323)	Men's and boys' separate trousers (SIC 2327)	Men's and boys' work clothing (SIC 2328)	Men's and boys' clothing, n.e.c. (SIC 2329)	Other industries
	Total	(X)	2,767.5	2,934.6	419.8	223.8	1,718.0	3,641.9	1,065.1	(X)
	Primary products	(X)	2,495.4	2,608.6	320.0	205.1	1,438.1	3,188.3	741.7	(X)
	Secondary products	(X)	178.3	226.6	49.5	-	264.2	391.5	156.0	(X)
	Miscellaneous receipts	(X)	93.8	99.4	50.3	18.7	15.7	62.1	167.4	(X)
2311-	Men's and boys' suits and coats	2,719.2	2,495.4	9.5	-	-	84.8	58.8	26.0	44.7
23111	Men's suits	1,273.4	1,219.6	(D)	-	-	24.9	(D)	18.7	2.4
23112	Men's overcoats and topcoats	179.8	155.0	(D)	-	-	(D)	(D)	(D)	18.4
23113	Men's tailored dress and sport coats and jackets	623.0	522.4	(D)	-	-	47.3	(D)	(D)	(D)
23114	Boys' suits, coats, and tailored jackets	149.7	118.2	(D)	-	-	(D)	(D)	(D)	13.9
23119	Commission work on men's and boys' suits and coats	371.5	358.7	(D)	-	-	(D)	(D)	(D)	6.6
23110	Men's and boys' suits and coats, n.s.k	121.8	121.5	(D)	-	-	-	-	-	(D)
2321-	Men's and boys' shirts and nightwear	2,836.5	5.2	2,608.6	(D)	-	(D)	79.6	22.0	52.3
23212	Men's and boys' knit outerwear sport shirts	809.0	(D)	718.7	34.4	-	(D)	(D)	9.6	22.7
23214	Men's and boys' dress and sport shirts	1,344.6	(D)	1,231.0	-	-	21.9	62.1	11.5	(D)
23215	Men's and boys' nightwear	152.8	-	139.4	(D)	-	-	-	-	(D)
23219	Contract work on men's and boys' shirts and nightwear	372.6	(D)	362.1	(D)	-	(D)	(D)	.9	(D)
23210	Men's and boys' shirts and nightwear, n.s.k	157.5	-	157.4	-	-	-	-	-	.1
2322-	Men's and boys' underwear	350.0	-	17.8	320.0	-	(D)	-	(D)	11.3
23221	Men's and boys' knit and woven underwear	341.4	-	17.8	311.4	-	(D)	-	(D)	11.3
23220	Men's and boys' underwear, n.s.k	8.6	-	-	8.6	-	-	-	-	-
23230	Men's and boys' neckwear	211.3	(D)	-	-	205.1	-	-	-	(D)
2327-	Men's and boys' separate trousers	1,631.4	94.7	(D)	-	-	1,438.1	57.3	(D)	24.4
23271	Men's and boys' separate dress and sport trousers	1,308.3	89.2	(D)	-	-	1,129.6	52.0	(D)	22.6
23279	Contract work on men's and boys' separate trousers	264.5	5.4	(D)	-	-	249.9	5.4	(D)	1.8
23270	Men's and boys' separate trousers, n.s.k	58.6	-	-	-	-	58.6	-	-	-
2328-	Men's and boys' work clothing	3,394.3	6.4	51.4	-	-	102.0	3,188.3	4.6	41.7
23281	Men's and boys' work shirts	191.6	(D)	(D)	-	-	(D)	175.4	(D)	2.9
23283	Men's and boys' jeans and jean-cut casual slacks	1,962.8	(D)	(D)	-	-	(D)	1,838.4	(D)	20.2
23284	Men's and boys' work clothing	729.7	(D)	(D)	-	-	(D)	682.7	(D)	12.1
23289	Contract work on men's and boys' work clothing	411.2	(D)	(D)	-	-	9.0	392.8	-	6.5
23280	Men's and boys' work clothing, n.s.k	99.0	-	-	-	-	-	99.0	-	-
2329-	Men's and boys' clothing, n.e.c	925.5	16.6	14.8	(D)	-	(D)	45.9	741.7	88.8
23291	Men's and boys' heavy outerwear coats and jackets	397.3	(D)	(D)	-	-	(D)	27.4	317.8	(D)
23292	Men's and boys' outerwear, n.e.c	423.3	(D)	(D)	(D)	-	(D)	18.5	319.0	55.9
23290	Men's and boys' clothing, n.e.c., n.s.k	105.0	-	(D)	-	-	-	-	104.9	(D)
	Other shipments by 4-digit product:									
2331-	Women's and misses' blouses and waists	(X)	3.9	(D)	(D)	-	(D)	(D)	(D)	(X)
2335-	Women's and misses' dresses	(X)	1.1	(D)	-	-	(D)	.9	(D)	(X)
2337-	Women's and misses' suits and coats	(X)	17.7	4.9	-	-	(D)	(D)	16.6	(X)
2339-	Women's and misses' outerwear, n.e.c	(X)	5.0	20.5	-	-	(D)	90.6	27.5	(X)
2341-	Women's and children's underwear	(X)	-	2.1	(D)	-	-	(D)	(D)	(X)
2352-	Hats and caps, except millinery	(X)	(D)	(D)	-	-	-	(D)	(D)	(X)
2361-	Children's dresses and blouses	(X)	-	6.9	(D)	-	(D)	(D)	(D)	(X)
2363-	Children's coats and suits	(X)	(D)	(D)	-	-	-	(D)	8.3	(X)
2369-	Children's outerwear, n.e.c	(X)	(D)	(D)	(D)	-	(D)	17.8	(D)	(X)
2384-	Robes and dressing gowns	(X)	-	(D)	-	-	-	-	-	(X)
2385-	Waterproof outer garments	(X)	(D)	(D)	-	-	.2	(D)	(D)	(X)
2386-	Leather and sheep lined clothing	(X)	(D)	-	-	-	-	-	10.2	(X)
2389-	Apparel and accessories, n.e.c	(X)	(D)	-	(D)	-	-	-	-	(X)
2392-	House furnishings, n.e.c	(X)	-	-	-	-	-	(D)	(D)	(X)
2393-	Textile bags	(X)	-	-	-	-	-	(D)	(D)	(X)
2394-	Canvas and related products	(X)	-	-	-	-	-	-	3.7	(X)
2395-	Pleating and stitching	(X)	-	(D)	-	-	-	-	(D)	(X)
2399-	Fabricated textile products, n.e.c	(X)	(D)	-	-	-	-	(D)	7.5	(X)
3949-	Sporting and athletic goods, n.e.c	(X)	-	-	-	-	-	-	2.8	(X)
93000 00	Contract receipts	(X)	8.0	13.8	45.6	10.0	(D)	26.9	126.6	(X)
99980 00	Other miscellaneous receipts	(X)	2.7	.8	(D)	(D)	(D)	.7	.7	(X)
99989 00	Resales	(X)	83.1	84.8	(D)	(D)	9.8	34.5	40.1	(X)

See footnotes at end of table.

Table 5c. **Industry-Product Analysis — Shipments by Product Class and Industry: 1977** — Con.

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Industry and miscellaneous receipts	Other industries	1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:			Other industries with over $5 million shipments of primary products--Con.	
2311-	2337 Women's and misses' suits and coats	13.3	2327-	2369 Children's outerwear, n.e.c	(D)
	2363 Children's coats and suits	(D)			
	2385 Waterproof outergarments	(D)	2328-	2339 Women's and misses' outerwear, n.e.c	34.0
2321-	2331 Women's and misses' blouses and waists	17.6	2329-	2337 Women's and misses' suits and coats	5.7
	2335 Women's and misses' dresses	6.4		2339 Women's and misses' outerwear, n.e.c	24.0
	2339 Women's and misses' outerwear	(D)		2363 Children's coats and suits	(D)
	2341 Women's and children's underwear	(D)		2384 Robes and dressing gowns	(D)
	2369 Children's outerwear, n.e.c	10.3		2385 Waterproof outergarments	(D)
2322-	2341 Women's and children's underwear	7.1		2399 Fabricated textile products, n.e.c	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
2311- --	MEN'S AND BOYS' SUITS AND COATS						
	Total	.....	(NA)	(X)	2,719.2	(X)	2,230.8
23111 --	Men's suits, including uniforms and leisure (duos and trios) suits:						
23111 00	As reported in census of manufactures	1,000 units...	171	**19,362	1,273.4	18,877	898.5
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[3]19,510	1,181.7	[3]18,989	905.7
23111 15	Men's suits, except leisure and uniforms		(NA)	17,311	1,103.6	18,693	887.6
	By price:						
23111 71	Priced under $35 per unit		(NA)	956	(X)	3,999	(X)
23111 72	Priced from $35 to $49.99 per unit		(NA)	3,183	(X)	6,856	(X)
23111 74	Priced from $50 to $62.49 per unit		(NA)	3,017	(X)	7,126	(X)
23111 75	Priced from $62.50 and over per unit		(NA)	8,607	(X)		
----- --	Price line, n.s.k		(NA)	1,548	(X)	712	(X)
	By fabric:						
23111 43	Made from all wool		(NA)	1,926	(X)	3,373	(X)
23111 45	Made from wool blends		(NA)	5,799	(X)	5,872	(X)
23111 46	Made from fabrics, except all wool or wool blends		(NA)	7,903	(X)	8,618	(X)
----- --	Fabric, n.s.k		(NA)	1,683	(X)	830	(X)
	By construction:						
23111 51	Knit fabric		(NA)	1,847	(X)	10,602	(X)
23111 52	Woven fabric		(NA)	13,575	(X)	6,989	(X)
----- --	Construction, n.s.k		(NA)	1,889	(X)	1,102	(X)
23111 76	Trios (coat with a matching pair of pants and a contrasting pair of pants)		(NA)	967	(X)	(X)	(X)
23111 81	Men's leisure suits		(NA)	1,962	52.9	(X)	(X)
23111 83	Knit fabric		(NA)	855	(X)	(X)	(X)
23111 84	Woven fabric		(NA)	1,050	(X)	(X)	(X)
----- --	Construction, n.s.k		(NA)	57	(X)	(X)	(X)
23111 66	Men's uniforms		(NA)	237	25.2	296	18.1
23112 --	Men's overcoats and topcoats, and tailored car and suburban coats, including uniforms:						
23112 00	As reported in census of manufactures		72	*5,197	179.8	3,532	97.0
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[3]5,735	194.1	[3]3,448	92.3
23112 14	Men's overcoats and topcoats, except uniforms		(NA)	1,668	74.3	1,167	39.9
23112 21	All wool and wool blends		(NA)	275	(X)	1,167	(X)
23112 22	Fabric, except all wool or wool blends		(NA)	714	(X)		
----- --	Fabric, n.s.k		(NA)	679	(X)	(X)	(X)
23112 76	Men's uniforms overcoats and topcoats		(NA)	846	18.7	370	10.0
23112 25	Men's tailored suburban and car coats, including storm-coats		(NA)	2,063	79.7	1,911	42.4
23112 00	Men's coats, n.s.k		(NA)	1,158	21.4	(X)	(X)
23113 --	Men's tailored dress and sport coats and jackets, including uniforms:						
23113 00	As reported in census of manufactures		142	**19,514	623.0	21,237	626.5
	As reported in Current Industrial Reports MA-23A, Apparel[4]		(NA)	[3]19,940	667.4	[3]23,887	667.0
23113 12	Men's tailored separate suit-type dress and sport coats, except leisure and uniforms		(NA)	15,099	557.4	21,289	622.2
	By price:						
23113 04	Priced under $24 per unit		(NA)	3,201	(X)	8,082	(X)
23113 06	Priced from $24 to $37.49 per unit		(NA)	6,176	(X)	12,014	(X)
23113 08	Priced from $37.50 to 57.49 per unit		(NA)	2,853	(X)		
23113 09	Priced from $57.50 and over per unit		(NA)	2,654	(X)		
----- --	Price line, n.s.k		(NA)	215	(X)	1,193	(X)
	By fabric:						
23113 22	Made from all wool and wool blends		(NA)	4,323	(X)	6,779	(X)
23113 24	Made from all cotton and cotton blends		(NA)	2,411	(X)	13,029	(X)
23113 25	Made from fabrics, except all wool or wool blends and all cotton and cotton blends		(NA)	7,470	(X)		
----- --	Fabric, n.s.k		(NA)	895	(X)	1,481	(X)
	By construction:						
23113 31	Knit fabric		(NA)	3,360	(X)	13,599	(X)
23113 33	Woven fabric		(NA)	11,485	(X)	6,001	(X)
----- --	Construction, n.s.k		(NA)	254	(X)	1,689	(X)
23113 41	Men's leisure type sport coats		(NA)	3,113	63.3	(X)	(X)
	By construction:						
23113 43	Knit fabric		(NA)	1,005	(X)	(X)	(X)
23113 44	Woven fabric		(NA)	2,108	(X)	(X)	(X)
23113 79	Men's uniforms separate coats and jackets	1,000 units...	(NA)	1,728	46.7	2,598	44.8

See footnotes at end of table.

Table 6a. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	MEN'S AND BOYS' SUITS AND COATS--Con.						
23114 --	Boys' suits, coats, and tailored jackets (including students and cadets), including uniforms:						
23114 00	As reported in census of manufactures	1,000 units	40	**9,080	149.7	7,827	100.0
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[3]9,024	147.8	[3]7,588	102.8
23114 12	Boys' suits, including uniforms suits, but excluding wash suits and leisure suits		(NA)	3,454	72.3	3,528	49.4
23114 22	All wool and wool blends		(NA)	94	(X)	482	(X)
23114 29	Fabrics, except all wool or wool blends		(NA)	3,210	(X)	2,976	(X)
----- --	Fabrics, n.s.k.		(NA)	150	(X)	70	(X)
23114 31	Boys' leisure suits		(NA)	424	7.2	(X)	(X)
23114 14	Boys' tailored overcoats, topcoats, car, suburban, and stormcoats		(NA)	1,035	14.9	1,013	12.2
23114 19	Boys' tailored suit-type separate dress and sport coats, including uniform		(NA)	1,157	24.6	3,017	41.2
23114 43	All wool and wool blends		(NA)	317	(X)	386	(X)
23114 45	Fabric, other than wool and wool blends		(NA)	840	(X)	2,631	(X)
----- --	Fabric, n.s.k.		(NA)	-	(X)	30	(X)
23114 47	Boy's leisure type sportcoats	1,000 units	(NA)	2,954	28.8	(X)	(X)
23119 --	Contract and commission work on men's, youths', and boys' suits, tailored sport and dress coats, overcoats and jackets done for others on their materials	.....	(NA)	(X)	371.5	(X)	445.5
23119 11	Contract and commission work on men's, youths', and boys' suit, tailored sport and dress coats and jackets, and overcoats, typically for establishments with 10 employees or more	.....	(NA)	(X)	370.5	(X)	445.5
23119 02	Contract and commission work on men's, youths', and boys' suit, tailored sport and dress coats and jackets, and overcoats, typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	1.0	(X)	(X)
23110 00	Men's and boys' suits and coats, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	100.9	(X)	44.9
23110 02	Men's and boys' suits and coats, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	20.9	(X)	18.4
	MEN'S AND BOYS' SHIRTS AND NIGHTWEAR						
2321- -- 2253 pt. 2254 pt.	Total	.....	(NA)	(X)	[5]2,836.5	(X)	[5]2,210.5
23212 -- 22532 --	Men's and boys' knit outerwear sport shirts, including sweat shirts:						
	As reported in the census of manufactures	1,000 dozens	(NA)	([6])	([6])	[3]24,902	614.9
22532 10	Made in knitting mills		(NA)	([6])	([6])	12,251	232.2
23212 00	Made in cut-and-sew shops		147	27,821	809.0	12,651	382.7
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[3]40,539	1,174.2	[3]25,082	609.5
23212 11	Men's knit outerwear sport shirts		(NA)	24,446	762.8	13,248	389.5
23212 05	All cotton and chiefly cotton		(NA)	13,821	(X)	7,352	(X)
23212 07	All manmade and chiefly manmade (nylon, acrylic, rayon, etc.)		(NA)				
23212 09	Fabrics, except all cotton and chiefly cotton, and all manmade and chiefly manmade		(NA) (NA)	8,831	(X)	5,091	(X)
23212 97	Fabrics, n.s.k.		(NA)	1,794	(X)	805	(X)
23212 18	Men's sweat shirts		(NA)	2,910	118.0	3,136	68.7
23212 21	All cotton and chiefly cotton		(NA)	1,874	(X)	1,910	(X)
23212 23	Fabrics, except all cotton and chiefly cotton		(NA)	1,036	(X)	496	(X)
	Fabrics, n.s.k.		(NA)	-	(X)	730	(X)
23212 25	Boys' knit outerwear sport shirts, except sweat shirts		(NA)	12,179	264.1	7,366	134.6
23212 26	All cotton and chiefly cotton		(NA)	5,976	(X)	3,883	(X)
23212 27	All manmade and chiefly manmade		(NA)	5,449	(X)	2,794	(X)
23212 29	Fabrics, except all cotton and chiefly cotton, and all manmade and chiefly manmade		(NA)	-	(X)	689	(X)
23212 30	Fabrics, n.s.k.		(NA)	754	(X)		
23212 28	Boys' sweat shirts		(NA)	1,004	29.3	1,332	16.7
23212 31	All cotton and chiefly cotton		(NA)	791	(X)	826	(X)
23212 33	Fabrics, except all cotton and chiefly cotton		(NA)	213	(X)	151	(X)
	Fabrics, n.s.k.		(NA)	-	(X)	355	(X)
23214 -- 22533 --	Men's and boys' dress and sport shirts, including uniform:						
	As reported in the census of manufactures		(NA)	[3]22,815	1,368.3	[3]28,312	1,084.9
22533 35	Made in knitting mills		12	1,034	34.5	610	15.4
23214 00	Made in cut-and-sew shops	1,000 dozens	186	21,775	1,344.6	27,702	1,069.5

See footnotes at end of table.

Table 6a. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
	MEN'S AND BOYS' SHIRTS AND NIGHTWEAR						
	Men's and boys' dress and sport shirts, including uniform--Con.						
	As reported in Current Industrial Reports MA-23A, Apparel..	1,000 dozen..	(NA)	[3]22,255	1,393.3	[3]28,397	1,114.9
23214 17	Men's dress and business shirts		(NA)	9,048	636.3	13,191	601.2
	By fabric:						
23214 18	All cotton and chiefly cotton		(NA)	1,932	(X)	3,674	(X)
23214 21	All manmade and chiefly manmade		(NA)	6,181	(X)		
23214 22	Fabrics, except all cotton and chiefly cotton, and all manmade and chiefly manmade		(NA)	101	(X)	8,056	(X)
23214 78	Fabric, n.s.k		(NA)	834	(X)	1,461	(X)
	By construction:						
23214 23	Knit fabric		(NA)	1,911	(X)	(NA)	(X)
23214 24	Woven fabric		(NA)	6,303	(X)	(NA)	(X)
23214 79	Construction, n.s.k		(NA)	834	(X)	(NA)	(X)
23214 07	Men's sport shirts, except knit outerwear sport shirts		(NA)	8,983	577.5	8,811	350.5
23214 03	All cotton and chiefly cotton		(NA)	2,603	(X)	2,235	(X)
23214 04	All manmade and chiefly manmade		(NA)	5,667	(X)	5,956	(X)
23214 09	All wool and chiefly wool		(NA)	114	(X)	204	(X)
23214 79	Fabric, n.s.k		(NA)	599	(X)	416	(X)
23214 35	Men's uniform shirts		(NA)	867	55.9	743	32.9
23214 27	Boys' dress shirts, including uniform		(NA)	740	32.0	1,362	34.5
23214 21	All cotton and chiefly cotton		(NA)	128	(X)	433	(X)
23214 22	Fabrics, except all cotton and chiefly cotton		(NA)	597	(X)	929	(X)
	Fabrics, n.s.k		(NA)	15	(X)	(X)	(X)
23214 28	Boys' sport shirts, except knit outerwear sport shirts		(NA)	2,617	91.6	4,290	95.8
23214 23	All cotton and chiefly cotton		(NA)	941	(X)	1,614	(X)
23214 24	All manmade and chiefly manmade		(NA)	1,666	(X)	2,282	(X)
23214 26	All wool and chiefly wool		(NA)	10	(X)	158	(X)
23214 98	Fabric, n.s.k		(NA)			236	(X)
2321- -- 2254 pt.	Men's and boys' nightwear:						
	As reported in the census of manufactures		(NA)	([6])	([6])	[3]4,225	114.7
22541 15	Made in knitting mills		(NA)	([6])	([6])	704	9.4
23215 00	Made in cut-and-sew shops		31	3,042	152.8	3,521	105.3
	As reported in Current Industrial Reports MA-23A, Apparel..		(NA)	[3]3,158	148.6	[3]3,826	114.6
23215 11	Men's		(NA)	1,750	91.5	2,579	85.6
	By construction:						
23215 14	Woven fabric		(NA)	1,514	(X)	2,096	(X)
23215 15	Knit fabric		(NA)	133	(X)	156	(X)
23215 78	Construction, n.s.k		(NA)	103	(X)	327	(X)
	By fabric:						
23215 16	All cotton and chiefly cotton		(NA)	965	(X)	1,469	(X)
23215 17	Fabrics, except all cotton and chiefly cotton		(NA)	670	(X)	731	(X)
23215 79	Fabric, n.s.k		(NA)	115	(X)	379	(X)
23215 12	Boys'		(NA)	1,408	57.1	1,247	29.0
	By construction:						
23215 22	Woven fabric		(NA)	1,028	(X)	902	(X)
23215 24	Knit fabric		(NA)	380	(X)	291	(X)
23215 88	Construction, n.s.k		(NA)	(X)	(X)	54	(X)
	By fabric:						
23215 26	All cotton and chiefly cotton		(NA)	511	(X)	940	(X)
23215 28	Fabrics, except all cotton and chiefly cotton		(NA)	731	(X)	242	(X)
23215 89	Fabric, n.s.k	1,000 dozens..	(NA)	166	(X)	65	(X)
23219 --	Receipts for contract work on men's and boys' shirts and nightwear		(NA)	(X)	372.6	(X)	340.5
23219 13	Receipts for contract work on men's and boys' shirts (except work shirts) and collars		172	(X)	316.9	(X)	304.7
23219 15	Receipts for contract work on men's and boys' nightwear done for others on their materials		31	(X)	32.2	(X)	35.8
23219 00	Receipts for contract work on men's and boys' shirts and nightwear, n.s.k		(NA)	(X)	21.6	(X)	(X)
23219 02	Receipts for contract work on men's and boys' shirts and nightwear, n.s.k, typically for establishments with less than 5 employees (see note)		(NA)	(X)	1.9	(X)	(X)
23210 00	Men's and boys' shirts (except work shirts) and nightwear, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	141.7	(X)	34.2
23210 02	Men's and boys' shirts (except work shirts) and nightwear, n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	15.8	(X)	21.3

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
	MEN'S AND BOYS' UNDERWEAR						
2322- -- 2254 pt.	Total	1,000 dozens	(NA)	(X)	[5]350.0	76,754	[5]582.8
23221 --	Men's and boys' knit and woven underwear:						
	As reported in census of manufactures		(NA)	([6])	([6])	[3]76,506	581.0
23221 00	Made in cut-and-sew shops		43	31,048	341.4	31,696	230.5
22541 --	Made in knitting mills		(NA)	([6])	([6])	44,810	350.5
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[3]69,950	800.4	[3]72,182	558.4
	Underwear made from knit fabric		(NA)	62,265	706.1	62,351	489.0
	Undershirts		(NA)	32,179	367.6	33,094	256.5
22541 12	Heavyweight and mediumweight, including balbriggan		(NA)	1,680	43.1	949	17.8
	Lightweight with 1/4 sleeve, including T-shirts		(NA)	26,878	292.1	26,867	204.6
22541 21	Men's		(NA)	19,991	230.1	20,304	163.5
22541 26	Cotton/polyester blended fabric		(NA)	8,263	(X)		
22541 28	All cotton and all other cotton blends		(NA)	9,958	(X)	20,304	(X)
22541 29	All other fabrics		(NA)	1,770	(X)		
	Fabric, n.s.k.		(NA)				
22541 31	Boys'		(NA)	6,887	62.0	6,563	41.1
22541 36	Cotton/polyester blended fabric		(NA)	2,307	(X)		
22541 39	All cotton and all other cotton blends		(NA)	4,159	(X)	6,563	(X)
22541 41	All other fabrics		(NA)	421	(X)		
	Fabric, n.s.k.		(NA)				
22541 42	Men's and boys' sleeveless athletic type undershirts		(NA)	3,621	32.4	5,278	34.1
	Men's and boys' drawers		(NA)	2,598	65.5	2,244	42.6
22541 52	Nonsupporter type		(NA)	2,036	51.8	1,540	30.5
22541 55	Supporter-type, including half, knee, and full length		(NA)	562	13.7	704	12.1
	Shorts and briefs		(NA)	27,316	266.3	26,913	187.3
22541 57	Shorts (loose leg, nonsupporter type)		(NA)	269	4.0	669	6.1
	Briefs, supporter type		(NA)	27,047	262.3	26,244	181.2
22541 61	Men's		(NA)	17,589	180.0	16,921	130.4
22541 68	Cotton/polyester blended fabric		(NA)	10,084	(X)		
22541 66	All cotton and all other cotton blends		(NA)	6,652	(X)	16,921	(X)
22541 69	All other fabrics		(NA)	429	(X)		
	Fabric, n.s.k.		(NA)	424	(X)		
22541 71	Boys'		(NA)	9,458	82.3	9,323	50.8
22541 78	Cotton/polyester blended fabric		(NA)	5,962	(X)		
22541 76	All cotton and all other cotton blends		(NA)	2,862	(X)	9,323	50.8
22541 79	All other fabrics		(NA)	634	(X)		
	Fabric, n.s.k.		(NA)				
22541 81	Men's and boys' union suits		(NA)	172	6.7	100	2.6
	Underwear made from woven fabric		(NA)	7,685	94.3	9,831	69.4
23221 16	Men's		(NA)	7,295	91.1	9,511	67.8
23221 13	Cotton/polyester blended fabric		(NA)	4,201	(X)		
23221 15	All cotton and all other cotton blends		(NA)	2,268	(X)	9,511	67.8
23221 17	All other fabrics		(NA)	826	(X)		
	Fabric, n.s.k.		(NA)				
23221 18	Boys'	1,000 dozens	(NA)	390	3.2	320	1.6
23220 00	Men's and boys' underwear, n.s.k., typically for establishments with 20 employees or more (see note)	1,000 dozens	(NA)	[7]464	5.1	[7]179	1.3
23220 02	Men's and boys' underwear, n.s.k., typically for establishments with less than 20 employees (see note)	1,000 dozens	(NA)	[7]318	3.5	[7]69	.5
	MEN'S AND BOYS' NECKWEAR						
2323- --	Total		(NA)	(X)	211.3	(X)	279.3
23230 --	Men's, youths', and boys' neckwear:						
	Neckties made from woven fabrics, including prints	1,000 dozens	(NA)	(NA)	125.0	11,996	222.6
23230 21	All silk		21	*480	25.8	912	26.6
23230 25	All rayon and/or acetate		13	(S)	5.1	1,929	26.8
23230 27	All polyester		44	2,870	81.9	6,756	132.7
23230 29	All other fabrics, including blends		17	(S)	12.2	2,399	36.5
23230 49	All other men's and boys' neckwear, including knit neckties and knit or woven mufflers and scarfs	1,000 dozens	10	**236	8.8	648	9.5
23230 00	Men's and boys' neckwear, n.s.k., typically for establishments with 10 employees or more (see note)		(S)	(X)	72.2	(X)	37.1
23230 02	Men's and boys' neckwear, n.s.k., typically for establishments with less than 10 employees (see note)		(NA)	(X)	5.3	(X)	10.1

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972 — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
	MEN'S AND BOYS' SEPARATE TROUSERS						
2327- --	Total	.....	(NA)	(X)	1,631.4	(X)	1,775.9
23271 --	Men's and boys' separate dress and sport trousers, pants, slacks, and shorts, including uniform trousers, but excluding jean-cut casual slacks:						
23271 00	As reported in census of manufactures	Thousands.....	218	[3]157,899	1,308.3	[3]236,013	1,388.1
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[3]168,121	1,404.8	[3]231,991	1,416.4
	Men's separate dress and sport trousers, excluding uniform		(NA)	116,006	1,113.5	166,591	1,180.5
	By price:						
23271 13	Priced under $4.25 per unit		(NA)	5,362	(X)	23,360	(X)
23271 15	Priced from $4.25 to $8.99 per unit		(NA)	57,790	(X)	99,838	(X)
23271 17	Priced from $9 and over per unit		(NA)	46,190	(X)	35,449	(X)
23271 88	Price line, n.s.k.		(NA)	19,498	(X)	7,944	(X)
	By fabric:						
23271 21	Made from wool and wool blends		(NA)		(X)	9,045	(X)
23271 23	Made from cotton and cotton blends (with other than wool)		(NA)		(X)	33,301	(X)
23271 29	Made from fabrics, except wool and wool blends or cotton and cotton blends		(NA)	60,956	(X)	114,273	(X)
23271 98	Fabric, n.s.k.		(NA)		(X)	9,972	(X)
	By construction:						
23271 31	Knit fabric		(NA)	47,652	(X)	98,131	(X)
23271 33	Woven fabric		(NA)	60,956	(X)	60,448	(X)
23271 39	Construction, n.s.k.		(NA)	7,398	(X)	8,012	(X)
23271 74	Men's uniform dress trousers		(NA)	5,978	(X)	6,320	41.6
23271 41	Men's dress shorts		(NA)	6,435	30.4	6,500	26.5
23271 57	Boys' dress and sport trousers, including uniform		(NA)	24,853	132.2	46,549	153.2
23271 51	Wool and wool blends		(NA)		(X)	208	(X)
23271 52	Cotton and cotton blends (with other than wool)		(NA)		(X)	36,358	(X)
23271 54	Fabrics, except wool and wool blends and cotton and cotton blends		(NA)	(NA)	(X)	8,637	(X)
23271 60	Fabric, n.s.k.		(NA)		(X)	1,346	(X)
23271 61	Boys' dress shorts	Thousands.....	(NA)	8,077	24.7	6,031	14.6
23279 --	Contract and commission work on men's and boys' separate dress and sport trousers	.....	(NA)	(X)	264.5	(X)	335.0
23279 11	Receipts for contract and commission work on men's and boys' separate dress and sport trousers, except jeans	.....	148	(X)	263.8	(X)	335.0
23279 02	Receipts for contract and commission work on men's and boys' separate dress and sport trousers, typically for establishments with less than 20 employees (see note)	.....	(NA)	(X)	0.7	(X)	(X)
23270 00	Men's and boys' separate dress and sport trousers, n.s.k., typically for establishments with 20 employees or more (see note)	.....	(NA)	(X)	45.9	(X)	34.8
23270 02	Men's and boys' separate dress and sport trousers, n.s.k., typically for establishments with less than 20 employees (see note)	.....	(NA)	(X)	12.7	(X)	18.0
	MEN'S AND BOYS' WORK CLOTHING						
2328- --	Total	.....	(NA)	(X)	3,394.3	(X)	1,624.8
23281 --	Men's and boys' work shirts:						
23281 00	As reported in the census of manufactures	1,000 dozens..	57	[3]3,696	191.6	[3]4,442	141.7
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[3]3,475	177.2	[3]4,513	149.7
23281 19	Men's		(NA)	3,470	176.8	4,493	148.7
23281 25	Boys'		(NA)	5	.4	20	1.0
23283 --	Men's and boys' jeans and jean-cut casual slacks:						
23283 00	As reported in the census of manufactures		112	[3]24,987	1,962.8	[3]16,236	737.6
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[3]24,610	1,944.6	[3]17,435	762.4
	Men's:						
23282 20	Jeans and jean-cut casual slacks		(NA)	14,627	1,310.9	11,869	569.0
	By fabric:						
23282 19	All cotton and chiefly cotton		(NA)	11,456	(X)	8,855	(X)
23282 22	Fabric, except all cotton and chiefly cotton		(NA)	2,403	(X)	2,590	(X)
	Fabric, n.s.k.		(NA)	768	(X)	424	(X)
	By construction:						
23282 47	Knit fabric		(NA)	577	(X)	(NA)	(X)
23282 44	Woven fabric		(NA)	12,976	(X)	(NA)	(X)
23282 45	Construction, n.s.k.	1,000 dozens..	(NA)	1,074	(X)	-	(X)

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
	MEN'S AND BOYS' WORK CLOTHING--Con.						
	Men's and boys' jeans and jean-cut casual slacks--Con.						
	As reported in Current Industrial Reports MA-23A, Apparel--Con.						
	Boys':						
23282 28	Jeans and jean-cut casual slacks	1,000 dozens	(NA)	5,524	374.8	5,566	193.4
23282 41	All cotton and chiefly cotton		(NA)	3,630	(X)	2,356	(X)
23282 42	Fabric, except all cotton and chiefly cotton		(NA)	1,623	(X)	2,705	(X)
	Fabric, n.s.k		(NA)	271	(X)	505	(X)
23282 49	Men's and boys' jeans and jean cut-casual slacks, n.s.k		(NA)	4,459	258.9	-	-
23284 --	Men's and boys' work clothing (except shirts) and washable service apparel, including work pants, dungarees, overalls, work uniforms, hospital garments, etc., but excluding jeans:						
23284 00	As reported in the census of manufactures		103	[3]9,703	729.7	[3]13,574	534.8
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[3]9,785	729.9	[3]13,290	574.7
	Men's:						
23282 21	Dungarees and waistband overalls, except jeans		(NA)	2,303	161.1	2,902	128.9
23282 38	Work pants, except dungarees, jeans, overalls, and waterproof pants		(NA)	3,092	213.0	4,492	198.9
23282 14	One-piece work suits, bib overalls, and coveralls, except waterproof and flight clothing		(NA)	1,480	186.9	1,415	101.7
23282 46	Washable service apparel		(NA)	1,360	77.3	1,973	51.0
	Boys':						
23282 29	Dungarees, waistband and bib overalls, and work pants, except jeans		(NA)	1,374	70.9	2,011	64.6
23282 11	Men's and boys' overall and work-type jackets	1,000 dozens	(NA)	176	20.7	497	29.6
23289 --	Contract and commission work on men's and boys' work clothing		(NA)	(X)	411.2	(X)	188.4
23289 15	Receipts for contract work on work shirts, work clothing, and washable service apparel done for others on their materials		(NA)	(X)	410.6	(X)	188.4
23289 02	Receipts for contract and commission work on men's and boys' work shirts, work clothing, washable service apparel jeans and jean-cut casual slacks, typically for establishments with less than 20 employees (see note)		(NA)	(X)	0.6	(X)	(X)
23280 00	Men's and boys' work clothing, n.s.k., typically for establishments with 20 employees or more (see note)		(NA)	(X)	80.4	(X)	15.3
23280 02	Men's and boys' work clothing, n.s.k., typically for establishments with less than 20 employees (see note)		(NA)	(X)	18.6	(X)	7.0
	MEN'S AND BOYS' CLOTHING, N.E.C.						
2329- --	Total		(NA)	(X)	[5]925.5	(X)	[5]867.9
23291 --	Men's and boys' heavy outerwear coats and jackets, including uniforms, nontailored:						
23291 00	As reported in census of manufactures	1,000 dozens	131	[3]2,847	397.3	[3]2,542	311.8
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[3]2,829	424.2	[3]2,527	323.3
23291 pt	Heavy nontailored jackets, including uniforms:						
23291 21	Men's heavy nontailored outer jackets, except uniform		(NA)	1,724	325.7	1,687	239.4
23291 17	All cotton and cotton blends		(NA)	361	(X)	618	(X)
23291 15	All wool and wool blends		(NA)	213	(X)	395	(X)
23291 19	Fabric, except all wool and wool blends or all cotton and cotton blends		(NA)	960	(X)	577	(X)
	Fabric, n.s.k		(NA)	190	(X)	97	(X)
23291 09	Men's uniform nontailored outer jackets		(NA)	140	26.8	195	22.2
23291 25	Boys' nontailored heavy outer jackets		(NA)	600	70.1	645	61.7
23291 71	All wool and wool blends		(NA)	121	(X)	145	(X)
23291 72	All cotton and cotton blends		(NA)	121	(X)	192	(X)
23291 79	Fabric, except all wool and wool blends and all cotton and cotton blends		(NA)	358	(X)	288	(X)
	Fabric, n.s.k		(NA)	(X)	(X)	20	(X)
	Heavy nontailored jackets, including uniforms, n.s.k		(NA)	365	1.6	(X)	(X)
23292 --	Men's and boys' outerwear, n.e.c., made from woven or purchased knit fabric:						
23292 20	Swimwear and athletic shorts, including knit:						
	As reported in census of manufactures[2]		50	[3]3,224	104.1	[3]1,858	49.3
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[3]3,323	101.2	[3]2,072	54.2
	Swimsuits		(NA)	1,979	66.9	1,342	42.3
23292 35	Men's swimsuits		(NA)	1,378	51.7	957	34.2
23292 44	Knit fabric		(NA)	284	(X)	243	(X)
23292 41	Woven fabric		(NA)	1,003	(X)	565	(X)
	Construction, n.s.k	1,000 dozens	(NA)	91	(X)	149	(X)

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
	MEN'S AND BOYS' CLOTHING, N.E.C.--Con.						
	Men's and boys' outerwear, n.e.c., made from woven or purchased knit fabric--Con.						
	Swimwear and athletic shorts, including knit--Con.						
	As reported in Current Industrial Reports MA-23A, Apparel--Con.						
23292 37	Boys' swimsuits	1,000 dozens	(NA)	601	15.2	385	8.6
23292 45	Knit fabric	1,000 dozens	(NA)	164	(X)	124	(X)
23292 41	Woven fabric	1,000 dozens	(NA)	437	(X)	236	(X)
	Construction, n.s.k.	1,000 dozens	(NA)	(X)	(X)	25	(X)
23292 51	Men's and boys' athletic shorts	1,000 dozens	(NA)	1,344	34.3	730	11.4
	Men's and boys' other outerwear, n.e.c., including knit suits, ski and snow pants, and leggings:						
	As reported in census of manufactures	1,000 dozens	(NA)	[3]7,419	368.2	[3]4,330	215.4
22533 38	Made in knitting mills	1,000 dozens	(NA)	2,952	85.6	1,235	25.8
23292 50	Made in cut-and-sew shops	1,000 dozens	115	4,467	282.6	3,095	189.6
	As reported in Current Industrial Reports MA-23A, Apparel	1,000 dozens	(NA)	[3]2,694	223.3	[3]1,985	154.3
23292 05	Men's light nontailored outer jackets, except uniform	1,000 dozens	(NA)	2,052	189.4	1,458	120.3
23292 15	All cotton and cotton blends	1,000 dozens	(NA)	1,030	(X)	799	(X)
23292 13	All wool and wool blends	1,000 dozens	(NA)	59	(X)	47	(X)
23292 19	Fabric, except all wool and wool blends or all cotton and cotton blends	1,000 dozens	(NA)	788	(X)	476	(X)
	Fabric, n.s.k.	1,000 dozens	(NA)	175	(X)	136	(X)
23292 08	Boys' nontailored light outer jackets	1,000 dozens	(NA)	642	33.9	527	34.0
23292 32	Cotton and cotton blends	1,000 dozens	(NA)	449	(X)	67	(X)
23292 31	Wool and wool blends	1,000 dozens	(NA)	32	(X)	187	(X)
23292 39	Fabric, except wool and wool blends and cotton and cotton blends	1,000 dozens	(NA)	161	(X)	251	(X)
	Fabric, n.s.k.	1,000 dozens	(NA)	(X)	(X)	22	(X)
	Men's and boys' sweaters, knit jackets, and jerseys:						
	As reported in census of manufactures	1,000 dozens	(NA)	([8])	([8])	[3]4,992	248.2
22531 10	Made in knitting mills	1,000 dozens	(NA)	([8])	([8])	3,867	190.3
23292 60	Made in cut-and-sew shops	1,000 dozens	12	341	22.2	1,125	57.9
	As reported in Current Industrial Reports MA-23A, Apparel	1,000 dozens	(NA)	[3]3,399	255.9	[3]4,542	239.8
22531 05	Men's sweaters, knit cardigans, and pullovers	1,000 dozens	(NA)	3,031	234.3	3,792	210.1
22531 22	All wool and chiefly wool	1,000 dozens	(NA)	488	(X)	1,010	(X)
22531 24	All manmade and chiefly manmade fabrics	1,000 dozens	(NA)	1,805	(X)	2,056	(X)
22531 29	Other fabrics, including mixtures and blends, except all wool and chiefly wool, and all manmade and chiefly manmade fabrics	1,000 dozens	(NA)	343	(X)	378	(X)
	Fabric, n.s.k.	1,000 dozens	(NA)	395	(X)	348	(X)
22531 07	Boys' sweaters, knit cardigans, and pullovers	1,000 dozens	(NA)	368	21.6	750	29.7
22531 31	All wool and chiefly wool	1,000 dozens	(NA)	38	(X)	131	(X)
22531 33	All manmade and chiefly manmade fabrics	1,000 dozens	(NA)	330	(X)	584	(X)
22531 39	Other fabrics, including mixtures and blends, except all wool and wool blends, and all manmade and chiefly manmade fabrics	1,000 dozens	(NA)			35	(X)
23292 00	Men's and boys' other outerwear, made from woven or purchased knit fabric, n.s.k.	.....	(NA)	(X)	14.4	(X)	3.6
23290 00	Men's and boys' clothing, n.e.c., n.s.k., typically for establishments with less than 5 employees. (See note)	.....	(NA)	(X)	86.0	(X)	30.5
23290 02	Men's and boys' clothing, n.e.c., n.s.k., typically for establishments with 5 employees or more. (See note)	.....	(NA)	(X)	19.0	(X)	9.1

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]Quantity data shown for census represent shipments, whereas figures shown for CIR MA-23A represent production.

[4]Excludes tailored coats and jackets made on State or federal government contact.

[5]1977 figure covers only products made in cut-and-sew shops; 1972 figure also includes products made in knitting mills.

Footnotes are continued on next page.

[6]Census data for men's and boys' knit outerwear sport shirts and men's and boys' nightwear made in knitting mills are not available. In addition, Census data include only shirts and nightwear made from purchased fabrics while CIR data also include shirts and nightwear made from knitting mills. For comparability, see the following table:

1977 product code	Product	1977 Census of Manufactures		1977 CIR, MA-23A	
		Quantity of shipments (1,000 dozens)	Value of of shipments (million dollars)	Quantity of of production (1,000 dozens)	Value of shipments (million dollars)
2321 pt. 2253 pt. 2361 pt.	Knit outerwear sport shirts	63,775	2,002.3	63,893	1,988.8
22532 25	Made in knitting mills	18,574	518.1		
	Made in cut-and-sew shops	45,201	1,484.2		
23212 00	Men's and boys'	27,821	809.0	63,893	1,988.8
23312 00	Women's and misses'	9,662	499.1		
23612 00	Children's and infants	7,718	176.1		
2321 pt. 2254 pt.	Men's and boys' underwear and nightwear	72,378	925.2	73,108	949.0
22541 15	Made in knitting mills	38,288	431.0		
	Made in cut-and-sew shops	34,090	494.2	73,108	949.0
23221 00	Underwear	31,048	341.4		
23215 00	Nightwear	3,042	152.8		

[7]Quantity was estimated based on quantity-value relationship of all other products in this industry.

[8]Census data for men's and boys' knit sweaters, jackets, and jerseys are not available. In addition, Census data include sweaters, jackets, and jerseys made from purchased fabrics while CIR data also include sweaters, jackets, and jerseys made from purchased fabric as well as those made in knitting mills. For comparability, see the following table:

1977 product code	Product description	1977 Census of Manufactures		1977 CIR, MA-23A	
		Quantity of shipments (1,000 dozens)	Value of shipments (million dollars)	Quantity of production (1,000 dozens)	Value of shipments (million dollars)
	Knit sweaters, jackets, and jerseys	12,000	766.7	11,952	797.4
22531 35	Made in knitting mills	9,143	555.5		
	Made in cut-and-sew shops	2,857	211.2		
23292 60	Men's and boys'	324	21.6	11,952	797.4
23397 30	Women's and misses'	2,353	180.3		
23690 70	Children's and infants'	180	9.3		

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
23111, MEN'S SUITS		
United States	1,273.4	898.5
New England Division:		
Massachusetts	100.1	FF
Middle Atlantic Division:		
New York	248.1	235.6
New Jersey	36.8	22.0
Pennsylvania	276.6	168.7
East North Central Division:		
Ohio	75.5	FF
South Atlantic Division:		
Maryland	81.3	108.5
Georgia	99.4	51.1
East South Central Division:		
Kentucky	52.9	FF
Tennessee	57.8	FF
West South Central Division:		
Texas	10.0	CC
Pacific Division:		
California	39.4	FF
23112, MEN'S OVERCOATS AND TOPCOATS		
United States	179.8	97.0
New England Division:		
Massachusetts	37.6	CC
Middle Atlantic Division:		
New York	19.0	16.7
New Jersey	20.4	EE
Pennsylvania	16.7	CC
West North Central Division:		
Minnesota	14.8	CC
South Atlantic Division:		
Georgia	8.7	(NA)
23113, MEN'S TAILORED DRESS AND SPORT COATS AND JACKETS		
United States	623.0	626.5
New England Division:		
Massachusetts	63.3	GG
Middle Atlantic Division:		
New York	70.5	134.0
New Jersey	31.0	40.4
Pennsylvania	180.2	135.4
East North Central Division:		
Ohio	27.3	30.0
Illinois	26.3	29.6
South Atlantic Division:		
Maryland	20.1	44.7
Virginia	9.6	CC
Georgia	27.8	39.0
East South Central Division:		
Kentucky	22.4	19.6
Tennessee	14.1	EE
Pacific Division:		
California	48.6	45.5
23114, BOYS' SUITS, COATS, AND TAILORED JACKETS		
United States	149.7	100.0
New England Division:		
Massachusetts	28.8	EE
Middle Atlantic Division:		
New York	20.9	19.4
Pennsylvania	39.6	28.5
West South Central Division:		
Texas	9.0	BB
23119, COMMISSION WORK ON MEN'S AND BOYS' SUITS AND COATS		
United States	371.5	445.5
New England Division:		
Massachusetts	21.3	27.9
Middle Atlantic Division:		
New York	54.2	71.3
New Jersey	17.9	28.7
Pennsylvania	69.3	115.0
West North Central Division:		
Missouri	5.8	BB
South Atlantic Division:		
Maryland	16.4	24.6
Georgia	45.5	FF
East South Central Division:		
Tennessee	19.3	10.4
Alabama	12.4	BB
Mississippi	15.1	CC
West South Central Division:		
Texas	24.6	BB
Pacific Division:		
California	3.1	FF
23212, MEN'S AND BOYS' KNIT OUTERWEAR SPORT SHIRTS		
United States	809.0	382.7
Middle Atlantic Division:		
New York	87.4	68.8
Pennsylvania	80.2	FF
East North Central Division:		
Wisconsin	20.1	EE
South Atlantic Division:		
North Carolina	75.8	36.4
South Carolina	48.1	39.2
Florida	9.2	8.0
East South Central Division:		
Kentucky	34.6	FF
Tennessee	58.4	41.8
Alabama	126.6	10.9
West South Central Division:		
Arkansas	2.2	(NA)
Mountain Division:		
Arizona	8.5	BB
Pacific Division:		
California	52.8	41.5
Hawaii	3.3	(NA)
23214, MEN'S AND BOYS' DRESS AND SPORT SHIRTS		
United States	1,344.6	1,069.5
Middle Atlantic Division:		
New York	218.9	192.6
New Jersey	16.8	40.0
Pennsylvania	81.6	87.9
South Atlantic Division:		
Maryland	19.2	CC
North Carolina	69.4	73.6
South Carolina	67.5	57.1
Georgia	137.7	120.3
Florida	15.9	6.1
East South Central Division:		
Kentucky	47.6	FF
Tennessee	158.3	112.1
Alabama	119.1	112.5
Mississippi	33.4	23.6
West South Central Division:		
Texas	15.9	3.2
Pacific Division:		
California	140.0	44.8
Hawaii	9.1	BB

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972—Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
23215, MEN'S AND BOYS' NIGHTWEAR		
United States	152.8	105.3
Middle Atlantic Division:		
New York	65.2	37.7
Pennsylvania	18.9	EE
South Atlantic Division:		
North Carolina	14.7	5.0
23219, CONTRACT WORK ON MEN'S AND BOYS' SHIRTS AND NIGHTWEAR		
United States	372.6	340.5
New England Division:		
Connecticut	4.5	BB
Middle Atlantic Division:		
New York	10.8	15.8
New Jersey	7.4	CC
Pennsylvania	39.6	34.7
South Atlantic Division:		
Maryland	2.3	4.8
Virginia	15.5	19.7
North Carolina	44.2	37.0
South Carolina	23.7	30.7
Georgia	41.9	35.9
Florida	5.2	BB
East South Central Division:		
Kentucky	3.9	4.3
Tennessee	47.0	37.9
Alabama	37.6	26.8
Mississippi	17.2	22.5
West South Central Division:		
Louisiana	4.2	BB
Pacific Division:		
California	13.3	10.2
23221, MEN'S AND BOYS' KNIT AND WOVEN UNDERWEAR		
United States	341.4	230.5
Middle Atlantic Division:		
New York	18.6	(NA)
Pennsylvania	13.5	(NA)
South Atlantic Division:		
South Carolina	26.8	(NA)
Georgia	29.4	(NA)
East South Central Division:		
Alabama	14.4	(NA)
23271, MEN'S AND BOYS' SEPARATE DRESS AND SPORT TROUSERS		
United States	1,308.3	1,388.1
New England Division:		
Massachusetts	22.0	EE
Middle Atlantic Division:		
New York	167.6	180.8
New Jersey	10.8	CC
Pennsylvania	63.0	GG
East North Central Division:		
Ohio	21.6	40.2
West North Central Division:		
Missouri	16.6	FF
South Atlantic Division:		
Maryland	28.2	40.8
Virginia	36.4	19.0
Georgia	50.8	122.4

Product class and geographic area	Value of product shipments	
	1977	1972
23271, MEN'S AND BOYS' SEPARATE DRESS AND SPORTS TROUSERS--Con.		
East South Central Division:		
Kentucky	13.9	18.7
Tennessee	98.3	155.0
Alabama	38.1	18.4
Mississippi	78.7	145.7
West South Central Division:		
Louisiana	29.5	CC
Texas	246.7	273.0
Pacific Division:		
California	42.9	42.2
23279, CONTRACT WORK ON MEN'S AND BOYS' SEPARATE TROUSERS		
United States	264.5	335.0
Middle Atlantic Division:		
New York	8.9	7.4
Pennsylvania	38.9	33.7
West North Central Division:		
Missouri	15.9	CC
South Atlantic Division:		
Virginia	9.6	12.9
Georgia	51.0	59.5
East South Central Division:		
Kentucky	12.1	11.4
Tennessee	17.8	17.0
Alabama	38.7	18.9
Mississippi	21.8	39.4
West South Central Division:		
Arkansas	8.0	BB
Louisiana	12.3	EE
Texas	8.9	61.2
Pacific Division:		
California	3.2	1.9
23281, MEN'S AND BOYS' WORK SHIRTS:		
United States	191.6	141.7
Middle Atlantic Division:		
Pennsylvania	8.3	AA
West North Central Division:		
Missouri	15.8	CC
South Atlantic Division:		
Georgia	15.7	8.5
East South Central Division:		
Tennessee	44.1	29.8
Alabama	7.6	(NA)
Mississippi	42.8	19.4
West South Central Division:		
Texas	8.0	CC
23283, MEN'S AND BOYS' JEANS AND JEAN-CUT CASUAL SLACKS		
United States	1,962.8	737.6
Middle Atlantic Division:		
New York	54.9	(NA)
Pennsylvania	12.2	(NA)
West North Central Division:		
Missouri	18.5	(NA)
South Atlantic Division:		
Virginia	124.7	(NA)
North Carolina	40.6	(NA)
Georgia	182.0	(NA)
East South Central Division:		
Kentucky	27.4	(NA)
Tennessee	342.5	(NA)
Alabama	61.8	(NA)
Mississippi	130.5	(NA)
West South Central Division:		
Louisana	13.0	(NA)
Oklahoma	89.3	(NA)
Texas	396.5	(NA)

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972—Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
23284, MEN'S AND BOYS' WORK CLOTHING		
United States	729.7	534.8
New England Division:		
Massachusetts	7.5	(NA)
Middle Atlantic Division:		
New York	7.1	(NA)
Pennsylvania	14.2	(NA)
East North Central Division:		
Indiana	48.0	(NA)
Illinois	7.4	(NA)
West North Central Division:		
Missouri	37.7	(NA)
South Atlantic Division:		
Georgia	48.2	(NA)
East South Central Division:		
Kentucky	82.4	(NA)
Tennessee	129.5	(NA)
Alabama	23.5	(NA)
Mississippi	44.5	(NA)
West South Central Division:		
Arkansas	16.7	(NA)
Louisiana	4.6	(NA)
Texas	127.1	(NA)
Pacific Division:		
California	33.5	(NA)
23289, CONTRACT WORK ON MEN'S AND BOYS' WORK CLOTHING		
United States	411.2	188.4
Middle Atlantic Division:		
Pennsylvania	11.6	14.5
West North Central Division:		
Missouri	24.6	18.7
South Atlantic Division:		
Maryland	4.1	3.2
North Carolina	13.3	7.8
Georgia	26.1	14.4
Florida	4.5	AA
East South Central Division:		
Kentucky	20.7	11.0
Tennessee	50.8	31.1
Alabama	50.6	15.9
Mississippi	31.1	9.4
West South Central Division:		
Arkansas	4.9	3.7
Louisiana	4.5	2.7
Oklahoma	47.1	5.4
Texas	59.6	22.3
Pacific Division:		
California	4.4	AA
23291, MEN'S AND BOYS' HEAVY OUTERWEAR COATS AND JACKETS		
United States	397.3	311.8
New England Division:		
Massachusetts	6.8	13.0
Middle Atlantic Division:		
New York	63.7	53.5
New Jersey	36.6	21.3
Pennsylvania	32.2	25.5
East North Central Division:		
Wisconsin	13.7	10.7
West North Central Division:		
Minnesota	8.4	11.9
Missouri	28.3	30.1
South Atlantic Division:		
North Carolina	6.7	BB
Georgia	9.4	7.9
East South Central Division:		
Tennessee	12.6	FF
Mississippi	14.0	EE
Pacific Division:		
Washington	41.6	18.1
Oregon	6.2	AA
California	25.7	AA
23292, MEN'S AND BOYS' OUTERWEAR, N.E.C.		
United States	423.3	300.4
New England Division:		
New Hampshire	3.4	AA
Vermont	3.6	(NA)
Massachusetts	2.1	3.1
Connecticut	6.6	AA
Middle Atlantic Division:		
New York	63.3	47.5
New Jersey	13.5	17.9
Pennsylvania	24.2	20.0
East North Central Division:		
Ohio	2.8	6.4
West North Central Division:		
Minnesota	13.9	5.4
Iowa	17.7	BB
Missouri	30.6	19.3
South Atlantic Division:		
Maryland	16.0	2.0
Virginia	14.0	BB
North Carolina	16.8	5.3
Georgia	17.6	BB
Florida	3.7	8.8
East South Central Division:		
Tennessee	35.3	13.8
Alabama	7.1	BB
Mississippi	7.0	(NA)
West South Central Division:		
Texas	32.6	FF
East North Central Division:		
Colorado	4.4	AA
Pacific Division:		
Washington	5.8	8.8
California	30.9	21.6

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.

(NA) Not available. N.E.C. Not elsewhere classified.

Table 6c. Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2311-	Men's and boys' suits and coats	2,719.2	2,479.3	2,346.7	2,251.2	2,305.7	2,230.8	1,779.7	1,438.7
23111	Men's suits	1,273.4	1,168.9	1,168.4	953.5	914.6	898.5	789.1	727.1
23112	Men's overcoats and topcoats	179.8	136.2	127.5	125.9	122.2	97.0	130.5	121.8
23113	Men's tailored dress and sport coats and jackets	623.0	567.7	489.6	595.9	621.2	626.5	379.5	214.6
23114	Boys' suits, coats, and tailored jackets	149.7	116.9	103.6	87.0	110.2	100.0	111.7	102.6
23119	Commission work on men's and boys' suits and coats	371.5	420.4	418.8	415.5	484.4	445.5	304.3	243.3
23110	Men's and boys' suits and coats, n.s.k.	121.8	(69.2)	(38.8)	(73.4)	(53.1)	63.3	64.6	29.3
2321-	Men's and boys' shirts and nightwear	2,836.5	2,840.8	2,387.7	2,347.1	2,088.6	1,962.9	1,347.7	1,177.4
23212	Men's and boys' knit outerwear sport shirts	[2]809.0	769.8	625.1	592.1	447.3	[2]382.7	[2]129.2	[2]83.3
23214	Men's and boys' dress and sport shirts	1,344.6	1,316.6	1,118.1	1,060.8	1,082.1	1,069.5	862.0	794.4
23215	Men's and boys' nightwear	[2]152.8	144.6	145.0	140.9	103.6	[2]105.3	[2]91.7	[2]88.7
23219	Contract work on men's and boys' shirts and nightwear	372.6	433.6	379.1	414.1	390.1	340.5	217.1	192.9
23210	Men's and boys' shirts and nightwear, n.s.k.	157.5	(176.2)	(120.4)	(139.2)	65.5	55.5	47.7	18.1
2322-	Men's and boys' underwear	350.0	359.5	288.8	239.6	257.6	232.3	192.4	136.0
23221	Men's and boys' knit and woven underwear	[2]341.4	357.7	298.1	239.6	255.6	[2]230.5	[2]190.9	[2]132.4
23220	Men's and boys' underwear, n.s.k.	8.6	1.8	(*)	-	2.0	1.8	1.5	4.2
23230	Men's and boys' neckwear	211.3	(173.5)	(154.6)	186.0	262.5	279.3	128.4	105.6
2327-	Men's and boys' separate trousers	1,631.4	1,839.3	1,734.5	1,942.3	1,932.1	1,775.9	1,195.2	860.7
23271	Men's and boys' separate dress and sport trousers	1,308.3	1,305.1	1,271.5	1,470.6	1,511.4	1,388.1	931.3	676.4
23279	Contract work on men's and boys' separate trousers	264.5	464.3	420.4	408.4	393.4	335.0	226.7	168.0
23270	Men's and boys' separate trousers, n.s.k.	58.6	(69.9)	(42.6)	(63.3)	27.3	52.8	37.2	16.3
2328-	Men's and boys' work clothing	3,394.3	2,533.8	2,179.6	2,141.3	1,604.6	1,624.8	1,023.1	715.9
23281	Men's and boys' work shirts	191.6	166.4	146.4	150.9	152.0	141.7	121.7	87.3
23283	Men's and boys' jeans and jean-cut casual slacks	1,962.8	2,071.0	1,785.7	1,762.2	1,213.1	737.6	722.2	540.3
23284	Men's and boys' work clothing	729.7					534.8	(NA)	(NA)
23289	Contract work on men's and boys' work clothing	411.2	274.8	222.3	200.7	220.1	188.4	138.6	80.7
23280	Men's and boys' work clothing, n.s.k.	99.0	(21.6)	(25.2)	(27.5)	19.4	22.3	40.6	7.6
2329-	Men's and boys' clothing, n.e.c.	925.5	932.7	795.3	824.9	719.1	746.5	605.5	457.7
23291	Men's and boys' heavy outerwear coats and jackets	397.3	380.5	313.5	351.1	351.5	311.8	290.4	258.7
23292	Men's and boys' outerwear, n.e.c.	[2]423.3	526.3	466.5	447.5	332.9	[2]300.4	[2]219.8	[2]135.8
23299	Commission work on men's and boys' clothing n.e.c.	(X)	(X)	(X)	(X)	(X)	94.7	60.2	54.1
23290	Men's and boys' clothing, n.e.c., n.s.k.	105.0	(25.8)	(15.2)	(26.3)	34.7	39.6	35.1	9.1

*Withheld because estimated figure is negative. This is consequence of using difference method of estimation (see Estimating Procedures in appendix B) and of improved establishment reporting that resulted in changing classification of shipments from n.s.k. code for 1972 Census to specified 5-digit product classes for this year. Four-digit total is best estimate, even though smaller than sum of 5-digit values. - Represents zero. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]For purposes of comparability with prior years' Annual Survey of Manufactures data, the value of shipments of the knitting mills (SIC group 225) has been excluded. (See table 6a)

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2311, MEN'S AND BOYS' SUITS AND COATS					
	Materials, parts, containers, and supplies	.....	(X)	846.8	(X)	673.8
220129	Broad woven fabrics	Mil. lin. yd...	(S)	445.2	[2]113.7	224.2
225078	Purchased knitted fabrics	Million lb.....	(S)	57.1	[2]78.9	257.4
970099	All other materials and components, parts, containers, and supplies	.....	(X)	161.5	(X)	105.7
971000	Materials, parts, containers, and supplies, n.s.k.[3]	.....	(X)	183.0	(X)	86.5
	INDUSTRY 2321, MEN'S AND BOYS' SHIRTS AND NIGHTWEAR					
	Materials, containers, and supplies	.....	(X)	1,107.9	(X)	782.4
220129	Broad woven fabrics, including transfers from other plants of same company	Mil. lin. yd...	**358.1	400.7	[2]559.8	367.0
225078	Purchased knitted fabrics	Million lb.....	**155.6	365.8	[2]175.4	268.8
970099	All other materials and components, parts, containers, and supplies	.....	(X)	144.8	(X)	71.7
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	196.6	(X)	74.9
	INDUSTRY 2322, MEN'S AND BOYS' UNDERWEAR					
	Materials, containers, and supplies	.....	(X)	182.3	(X)	105.0
220129	Broad woven fabrics	Mil. lin. yd...	46.0	30.3	[4]58.6	22.9
225078	Purchased knitted fabrics	Million lb.....	64.1	112.4	67.8	64.6
970099	All other materials and components, parts, containers, and supplies	.....	(X)	20.1	(X)	14.2
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	19.5	(X)	3.3
	INDUSTRY 2323, MEN'S AND BOYS' NECKWEAR					
	Materials, containers, and supplies	.....	(X)	93.4	(X)	128.4
220126	Broad woven fabrics	Mil. lin. yd...	**18.9	49.5	[2]56.0	89.2
225078	Purchased knitted fabrics, including transfers from other plants of same company	Million lb.....	(S)	1.8	[2]2.5	5.2
970099	All other materials and components, parts, containers, and supplies	.....	(X)	8.0	(X)	6.2
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	34.1	(X)	27.8
	INDUSTRY 2327, MEN'S AND BOYS' SEPARATE TROUSERS					
	Materials, containers, and supplies	.....	(X)	658.2	(X)	737.0
220129	Broad woven fabrics	Mil. lin. yd...	(S)	316.5	[2]216.1	235.2
225078	Purchased knitted fabrics	Million lb.....	(S)	94.5	[2]114.9	310.2
970099	All other materials and components, parts, containers, and supplies	.....	(X)	111.0	(X)	112.4
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	136.2	(X)	79.2
	INDUSTRY 2328, MEN'S AND BOYS' WORK CLOTHING					
	Materials, containers, and supplies	.....	(X)	1,608.4	(X)	746.8
220129	Broad woven fabrics	Mil. lin. yd...	706.3	1,194.5	[2]595.1	521.7
225078	Purchased knitted fabrics	Million lb.....	(S)	23.8	[5]25.3	51.9
970099	All other materials and components, parts, containers, and supplies	.....	(X)	224.4	(X)	97.6
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	165.7	(X)	75.6
	INDUSTRY 2329, MEN'S AND BOYS' CLOTHING, N.E.C.					
	Materials, containers, and supplies	.....	(X)	405.5	(X)	281.7
220129	Broad woven fabrics	Mil. lin. yd...	(S)	180.8	[2]132.9	142.1
225078	Purchased knitted fabrics	Million lb.....	**19.7	45.5	[2]24.3	59.6
970099	All other materials and components, parts, containers, and supplies	.....	(X)	96.0	(X)	51.0
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	83.2	(X)	29.0

N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]10 to 30 percent of quantity was estimated.

[3]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[4]Over 50 percent of quantity was estimated.

[5]30 to 50 percent of quantity was estimated.

Women's and Misses' Outerwear

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DESCRIPTION OF INDUSTRIES

WOMEN'S AND MISSES' OUTERWEAR

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title	
2331	Women's and Misses' Blouses and Waists
2335	Women's and Misses Dresses
2337	Women's and Misses' Suits and Coats
2339	Women's and Misses' Outerwear N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2331, WOMEN'S AND MISSES' BLOUSES AND WAISTS

This industry comprises establishments primarily engaged in the manufacture of women's, Misses' and Juniors' blouses, waists, and shirts. Knitting mills primarily engaged in manufacturing outerwear are classified in Industry 2253, Knit Outerwear Mills. Establishments primarily engaged in the manufacture of girls', children's and infants' blouses, waists, and shirts are classified in Industry 2361, Children's Dresses and Blouses.

The total value of shipments for establishments classified in the Women's and Misses' Blouses and Waists industry amounted to $2,344 million in 1977, an increase of 87 percent from 1972. The value of shipments of products classified as primary to the industry was $2,556 million, an increase of 99 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were women's, misses', and junior's knit outerwear sport shirts, for which shipments increased 164 percent, and women's, misses', and juniors blouses, waists, and shirts, for which shipments increased 99 percent. The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $1,199 million in 1977, was 103 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 83.3 thousand employees, an increase of 32 percent from 1972. The leading States in employment were Pennsylvania, New York, California, and North Carolina, accounting for approximately 60 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 55 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

The 1977 census obtained data on shipments of women's and misses' blouses and waists only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the production of women's and misses' blouses and waists are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-23A, Apparel. Some of these data are also shown in table 6a.

Certain products primary to industry 2331 are also primary to Industry 2253, Knit Outerwear Mills. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 19 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2335, WOMEN'S AND MISSES' DRESSES

This industry comprises establishments primarily engaged in the manufacture of women's, misses', and juniors' dresses, including ensemble dresses and pants dresses, whether sold by the piece or by the dozen. Establishments primarily engaged in the manufacture of girls', children's, and infants' dresses are classified in Industry 2361, Children's Dresses and Blouses.

The total value of shipments for establishments classified in the Women's and Misses' Dresses industry amounted to $4,048

million in 1977, an increase of 17 percent from 1972. The value of shipments of products classified as primary to the industry was $3,993 million, an increase of 13 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were women's, misses', and juniors' dresses sold at unit price, for which shipments increased 9 percent. The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $2,152 million in 1977, was 14 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 169.0 thousand employees, a decrease of 17 percent from 1972. The leading States in employment were New York, California, Pennsylvania, and Florida, accounting for approximately 65 percent of the industry's 1977 employment. This represents a shift from 1972 when New York, Pennsylvania, California, and New Jersey accounted for approximately 60 percent of the industry's employment.

The 1977 census obtained data on shipments of women's and misses' dresses only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the shipments of women's and misses' dresses are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-23A, Apparel. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 32 percent of total value of shipments.

INDUSTRY 2337, WOMEN'S AND MISSES' SUITS AND COATS

This industry comprises establishments primarily engaged in the manufacture of women's, misses', and juniors' suits, pantsuits, skirts, and coats, except fur coats and raincoats. These garments are generally tailored and lined. Establishments primary engaged in the manufacture of fur garments are classified in Industry 2371, Fur Goods; raincoats in Industry 2385, Waterproof Outer Garments; and knitting mills primarily engaged in the manufacture of knit outerwear, in Industry 2253, Knit Outerwear Mills.

The total value of shipments for establishments classified in the Women's and Misses' Suits and Coats industry amounted to $2,917 million in 1977, an increase of 61 percent from 1972. The value of shipments of products classified as primary to the industry was $2,735 million, an increase of 58 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were women's, misses', and juniors' suits, for which shipments increased 86 percent, and women's, misses', and juniors' skirts and jackets, for which shipments increased 67 percent. The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $1,432 million in 1977, was 70 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 84.9 thousand employees, an increase of 12 percent from 1972. The leading States in employment were New York, New Jersey, California, and Massachusetts, accounting for approximately 60 pecent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 65 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

The 1977 census obtained data on shipments of women's, misses', and juniors' suits and coats only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the production of women's, and misses', suits and coats are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-23A, Apparel. Some of these data are also shown in table 6a.

Certain products primary to industry 2337 are also primary to Industry 2253, Knit Outerwear Mills. Table 6a shows the value of the primary product shipments for all industries which they are primary.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 12 percent of total value of shipments.

INDUSTRY 2339, WOMEN'S AND MISSES' OUTERWEAR, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of women's, misses', and juniors' outerwear, not elsewhere classified, cut and sewn from purchased woven or knit fabric. Establishments primarily engaged in the knitting of outerwear are classified in industry 2253 Knit Outerwear Mills.

The total value of shipments for establishments classified in the Women's and Misses' Outerwear, N.E.C. industry amounted to $3,295 million in 1977, an increase of 101 percent from 1972. The value of shipments of products classified as primary to the industry was $3,175 million, an increase of 92 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were women's, misses', and juniors slacks, for which shipments increased 97 percent, and sweaters (cut and sewn), for which shipments increased 182 percent. The change reflected a general trend in the shipments of most of the products of the industry. Value added by

manufacture, at $1,580 million in 1977, was 101 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 104.4 thousand employees, an increase of 27 percent from 1972. The leading States in employment were New York, California, Pennsylvania, and Texas, accounting for approximately 50 percent of the industry's 1977 employment. This represents a shift from 1972 when New York, California, Pennsylvania, and North Carolina, accounted for approximately 50 percent of the industry's employment.

Certain products primary to industry 2339 are also primary to Industry 2253, Knit Outerwear Mills. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 14 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2331, WOMEN'S AND MISSES' BLOUSES AND WAISTS																
1977 Census--	1 297	1 422	959	83.8	572.2	74.2	125.8	426.7	1 198.6	1 169.4	2 344.2	24.3	181.7	223.8	85	75
1976 ASM----	(NA)	(NA)	(NA)	62.6	394.6	54.8	97.5	288.3	818.9	1 083.1	1 892.2	18.3	119.7	175.6	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	62.0	365.9	54.9	97.5	274.2	743.6	954.3	1 696.2	10.9	99.8	157.2	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	66.5	363.1	58.7	105.5	280.2	757.2	804.8	1 550.2	14.5	122.4	145.8	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	65.9	349.8	57.8	100.7	256.4	678.8	734.3	1 397.0	10.8	116.0	151.6	(NA)	(NA)
1972 Census--	890	971	703	63.0	328.1	54.8	98.6	234.6	592.4	668.3	1 254.9	30.0	(S)	129.0	83	74
1971 ASM----	(NA)	(NA)	(NA)	50.6	243.3	43.2	75.1	175.5	453.0	520.4	964.0	14.8	98.7	115.5	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	54.5	232.6	48.1	84.1	181.5	437.2	492.7	931.3	7.9	87.6	94.6	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	60.8	265.0	54.0	95.5	206.9	476.6	481.1	948.4	13.6	(S)	137.0	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	56.3	230.7	50.7	91.9	185.3	424.2	417.1	821.4	8.9	(S)	123.9	(NA)	(NA)
1967 Census--	921	990	626	56.1	209.0	50.5	90.4	166.9	384.2	354.0	727.0	6.2	(S)	85.0	84	75
1966 ASM----	(NA)	(NA)	(NA)	65.2	224.2	58.0	106.0	177.7	408.0	400.9	797.1	6.7	(NA)	80.0	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	62.1	208.2	54.8	100.7	166.0	364.4	354.3	706.5	5.5	(NA)	71.3	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	60.0	190.4	54.6	95.5	153.0	339.3	353.5	682.2	4.9	53.1	68.2	(NA)	(NA)
1963 Census--	1 130	1 175	718	57.6	177.9	52.1	92.7	145.6	300.5	312.7	610.2	4.4	48.5	49.9	88	74
INDUSTRY 2335, WOMEN'S AND MISSES' DRESSES																
1977 Census--	5 924	6 112	2 448	168.6	1 153.4	146.8	250.6	849.3	2 152.3	1 912.5	4 047.5	43.9	335.7	370.0	93	94
1976 ASM----	(NA)	(NA)	(NA)	210.1	1 270.1	186.7	336.9	974.3	2 227.2	1 861.9	4 093.9	60.1	315.7	334.1	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	201.1	1 183.6	177.9	313.8	911.9	2 083.3	1 749.9	3 859.8	58.0	305.3	317.7	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	201.7	1 118.1	175.5	306.7	842.1	2 033.3	1 748.5	3 793.5	43.9	300.1	355.3	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	215.1	1 147.8	188.1	315.8	869.1	2 041.8	1 944.3	3 988.5	41.5	341.0	364.8	(NA)	(NA)
1972 Census--	5 295	5 567	2 980	211.6	1 076.9	186.5	316.1	825.5	1 888.7	1 698.2	3 580.0	32.6	413.9	319.5	96	96
1971 ASM----	(NA)	(NA)	(NA)	204.5	1 032.2	175.9	304.1	777.0	1 968.6	1 926.5	3 872.7	35.7	313.7	373.3	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	201.6	952.4	174.5	308.3	726.0	1 722.3	1 642.1	3 352.3	25.8	294.5	317.7	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	216.4	1 035.0	187.0	327.8	783.8	1 784.2	1 679.6	3 471.6	45.1	347.6	291.4	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	211.3	965.5	183.5	322.5	731.9	1 686.4	1 552.5	3 216.1	24.3	(S)	266.6	(NA)	(NA)
1967 Census--	5 008	5 225	3 098	209.6	889.4	183.7	322.8	687.1	1 588.5	1 507.8	3 086.3	18.6	(S)	223.9	97	95
1966 ASM----	(NA)	(NA)	(NA)	192.0	730.9	169.2	290.6	563.5	1 254.5	1 257.4	2 507.6	14.4	(NA)	173.5	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	192.9	702.4	169.9	294.2	546.0	1 179.6	1 250.7	2 416.7	12.5	(NA)	170.1	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	197.8	711.4	174.0	316.3	549.1	1 207.0	1 279.8	2 477.3	7.5	171.2	188.6	(NA)	(NA)
1963 Census--	(NA)	4 752	3 013	200.0	696.8	177.1	306.3	543.7	1 180.9	1 233.3	2 411.0	12.7	171.8	162.6	97	96
INDUSTRY 2337, WOMEN'S AND MISSES' SUITS AND COATS																
1977 Census--	1 563	1 677	1 071	84.9	655.3	72.8	123.6	469.5	1 432.0	1 483.5	2 917.3	22.0	255.8	297.6	80	83
1976 ASM----	(NA)	(NA)	(NA)	73.6	532.9	63.0	115.3	379.3	1 069.7	1 226.4	2 286.7	27.1	178.2	222.7	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	64.7	461.8	54.4	101.5	315.9	931.6	1 131.0	2 065.4	29.0	158.5	200.2	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	68.7	451.5	57.6	104.1	314.6	929.0	1 040.9	1 977.0	18.5	171.8	192.8	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	81.1	490.6	70.3	124.8	354.6	938.0	1 060.5	1 990.1	22.7	153.9	210.5	(NA)	(NA)
1972 Census--	1 548	1 618	1 023	75.9	446.7	64.9	116.8	323.6	839.8	979.1	1 805.3	16.4	(S)	177.7	84	80
1971 ASM----	(NA)	(NA)	(NA)	74.9	409.4	64.5	111.8	302.6	773.8	810.2	1 593.8	14.4	153.7	172.0	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	80.4	413.3	68.7	120.5	304.2	766.3	848.6	1 606.8	19.6	176.4	178.0	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	80.1	440.2	67.9	120.4	324.9	824.4	947.5	1 749.0	20.4	(S)	169.1	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	81.7	441.7	69.7	119.7	325.6	789.4	977.6	1 758.8	19.2	(S)	163.4	(NA)	(NA)
1967 Census--	2 058	2 101	1 235	83.8	423.3	71.6	127.4	308.7	786.7	977.5	1 776.4	9.5	(S)	153.0	86	90
1966 ASM----	(NA)	(NA)	(NA)	95.4	431.2	81.4	149.8	318.4	814.0	975.2	1 779.8	13.1	(NA)	162.9	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	96.4	418.1	82.4	150.3	310.4	781.7	955.9	1 723.4	11.2	(NA)	151.0	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	92.9	386.3	79.7	139.8	288.2	678.0	925.1	1 599.6	3.4	201.6	137.7	(NA)	(NA)
1963 Census--	2 481	2 516	1 380	88.3	361.0	75.5	133.6	271.5	637.9	887.0	1 522.7	12.3	198.9	126.8	89	92
INDUSTRY 2339, WOMEN'S AND MISSES' OUTERWEAR, N.E.C.																
1977 Census--	1 634	1 802	1 072	104.4	735.3	88.3	152.1	530.8	1 579.5	1 732.6	3 294.7	42.4	287.7	433.8	80	81
1976 ASM----	(NA)	(NA)	(NA)	80.4	560.7	67.7	125.1	399.6	1 157.7	1 343.0	2 476.3	22.7	199.1	322.8	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	74.1	499.2	618.8	116.2	348.7	1 027.3	1 304.1	2 366.4	29.1	185.8	291.9	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	82.0	484.5	69.1	126.1	335.1	1 026.5	1 181.4	2 195.7	21.2	172.0	304.2	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	87.3	462.7	76.0	136.6	344.8	943.7	1 045.7	1 978.6	18.7	148.3	259.9	(NA)	(NA)
1972 Census--	1 247	1 373	897	82.1	417.9	71.5	128.0	310.4	781.0	882.1	1 638.0	19.3	144.8	221.5	81	62
1971 ASM----	(NA)	(NA)	(NA)	69.6	329.4	60.5	109.6	244.8	644.2	625.1	1 268.0	16.5	112.8	171.7	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	72.6	316.9	63.3	114.4	236.5	614.2	651.5	1 271.5	106.6	117.9	175.2	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	59.1	265.3	51.1	92.9	202.1	504.2	549.3	1 065.2	12.5	125.1	147.1	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	58.6	249.8	50.6	93.7	189.5	470.9	559.2	1 005.9	8.0	121.9	159.0	(NA)	(NA)
1967 Census--	1 048	1 100	656	59.7	234.1	51.7	93.9	172.9	423.1	518.2	944.3	8.1	120.2	144.3	77	59
1966 ASM----	(NA)	(NA)	(NA)	68.3	256.9	59.4	111.6	192.5	450.2	523.8	960.0	8.5	(NA)	131.4	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	65.0	236.3	58.0	106.3	180.3	407.8	491.5	891.9	7.8	(NA)	120.1	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	62.8	214.6	54.3	98.2	163.0	381.3	487.6	858.8	5.5	83.8	112.3	(NA)	(NA)
1963 Census--	1 252	1 297	709	59.5	200.2	51.4	94.0	151.4	340.5	443.2	786.0	7.0	79.6	106.0	82	59

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2331, WOMEN'S AND MISSES' BLOUSES AND WAISTS											
1977 Census--	6 828	(NA)	89	1 696	3.39	50	74	8	14 303	48	9.53
1976 ASM----	6 303	1 912	87	1 779	2.95	57	78	6	13 081	48	8.39
1975 ASM----	5 901	(S)	88	1 775	2.81	56	77	(S)	11 993	49	7.62
1974 ASM----	5 460	(S)	88	1 797	2.65	51	75	(S)	11 386	47	7.17
1973 ASM----	5 308	(S)	87	1 742	2.54	52	77	(S)	10 300	51	6.74
1972 Census--	5 207	(S)	86	1 799	2.37	53	79	(S)	9 403	55	6.00
1971 ASM----	4 808	1 950	85	1 738	2.33	53	79	10	8 952	53	6.03
1970 ASM----	4 267	1 607	88	1 748	2.15	52	77	9	8 022	53	5.19
1969 ASM----	4 358	(S)	88	1 768	2.16	50	78	(S)	7 838	55	4.99
1968 ASM----	4 097	(S)	90	1 812	2.01	50	78	(S)	7 534	54	4.61
1967 Census--	3 725	(S)	90	1 790	1.84	48	77	(S)	6 848	54	4.25
1966 ASM----	3 438	(NA)	88	1 827	1.67	50	78	(NA)	6 257	54	3.84
1965 ASM----	3 352	(NA)	88	1 837	1.64	50	79	(NA)	5 867	57	3.61
1964 ASM----	3 173	885	91	1 749	1.60	51	79	7	5 655	56	3.55
1963 Census--	3 088	842	90	1 779	1.57	51	80	7	5 217	59	3.24
INDUSTRY 2335, WOMEN'S AND MISSES' DRESSES											
1977 Census--	6 841	(NA)	87	1 707	3.39	47	76	8	12 766	54	8.59
1976 ASM----	6 045	1 502	88	1 804	2.89	45	76	7	10 600	57	6.61
1975 ASM----	5 885	1 518	88	1 763	2.90	45	76	7	10 359	56	6.63
1974 ASM----	5 543	1 487	87	1 747	2.74	46	75	7	10 080	54	6.62
1973 ASM----	5 336	1 585	87	1 678	2.75	48	77	8	9 492	56	6.46
1972 Census--	5 089	1 956	88	1 694	2.61	47	77	11	8 925	57	5.97
1971 ASM----	5 047	1 533	86	1 728	2.55	49	76	8	9 626	52	6.47
1970 ASM----	4 724	1 460	86	1 766	2.35	48	77	8	8 543	55	5.58
1969 ASM----	4 782	1 606	86	1 752	2.39	48	78	10	8 244	58	5.44
1968 ASM----	4 569	(S)	86	1 757	2.26	48	78	(S)	7 981	57	5.22
1967 Census--	4 243	(S)	87	1 757	2.12	48	77	(S)	7 578	55	4.92
1966 ASM----	3 806	(NA)	88	1 717	1.93	50	79	(NA)	6 533	58	4.31
1965 ASM----	3 641	(NA)	88	1 731	1.85	51	80	(NA)	6 115	59	4.00
1964 ASM----	3 596	865	87	1 817	1.73	51	80	6	6 102	58	3.81
1963 Census--	3 434	859	88	1 729	1.77	51	79	7	5 904	58	3.85
INDUSTRY 2337, WOMEN'S AND MISSES' SUITS AND COATS											
1977 Census--	7 719	(NA)	86	1 698	3.80	51	73	9	16 867	46	11.59
1976 ASM----	7 240	2 421	85	1 830	3.28	53	76	7	14 533	49	9.27
1975 ASM----	7 137	(S)	84	1 865	3.11	54	77	(S)	14 398	49	9.17
1974 ASM----	6 572	(S)	83	1 807	3.02	52	75	(S)	13 522	48	8.92
1973 ASM----	6 049	(S)	86	1 775	2.84	53	77	(S)	11 565	52	7.51
1972 Census--	5 885	(S)	85	1 799	2.77	54	78	(S)	11 064	53	7.19
1971 ASM----	5 465	2 052	86	1 733	2.70	50	76	9	10 331	52	6.92
1970 ASM----	5 140	2 194	85	1 754	2.52	52	78	10	9 531	53	6.35
1969 ASM----	5 495	(S)	84	1 773	2.69	54	79	(S)	10 292	53	6.84
1968 ASM----	5 406	(S)	85	1 717	2.72	55	80	(S)	9 662	55	6.59
1967 Census--	5 051	(S)	85	1 779	2.42	55	78	(S)	9 387	53	6.17
1966 ASM----	4 519	(NA)	85	1 840	2.12	54	79	(NA)	8 532	52	5.43
1965 ASM----	4 337	(NA)	85	1 824	2.06	55	79	(NA)	8 108	53	5.20
1964 ASM----	4 158	2 170	85	1 754	2.06	57	81	12	7 298	56	4.84
1963 Census--	4 088	2 252	85	1 769	2.03	58	81	13	7 224	56	4.77
INDUSTRY 2339, WOMEN'S AND MISSES' OUTERWEAR, N.E.C.											
1977 Census--	7 043	(NA)	85	1 723	3.49	53	75	9	15 129	47	10.38
1976 ASM----	6 973	2 476	84	1 847	3.19	54	76	8	14 399	48	9.25
1975 ASM----	6 736	2 507	835	187	3.00	55	76	7	13 863	48	8.84
1974 ASM----	5 908	2 097	84	1 824	2.65	53	75	7	12 518	47	8.14
1973 ASM----	5 300	1 698	87	1 797	2.52	52	76	7	10 809	49	6.90
1972 Census--	5 090	1 763	87	1 790	2.42	53	79	8	9 512	53	6.10
1971 ASM----	4 732	1 620	86	1 811	2.23	49	75	8	9 255	51	5.87
1970 ASM----	4 365	1 623	87	1 807	2.06	51	76	9	8 460	51	5.36
1969 ASM----	4 489	2 116	86	1 818	2.17	51	76	11	8 531	52	5.42
1968 ASM----	4 262	2 080	86	1 851	2.02	55	80	12	8 035	53	5.02
1967 Census--	3 921	2 013	86	1 816	1.84	54	79	12	7 087	55	4.50
1966 ASM----	3 761	(NA)	86	1 878	1.72	54	81	(NA)	6 591	57	4.03
1965 ASM----	3 635	(NA)	89	1 832	1.69	55	81	(NA)	6 273	57	3.83
1964 ASM----	3 417	1 334	86	1 808	1.65	56	81	9	6 071	56	3.88
1963 Census--	3 364	1 337	86	1 828	1.61	56	81	10	5 722	58	3.62

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2331, WOMEN'S AND MISSES' BLOUSES AND WAISTS														
United States	-	**1 422**	**959**	**83.8**	**572.2**	**74.2**	**125.8**	**426.7**	**1 198.6**	**1 169.4**	**2 344.2**	**24.3**	**83.0**	**592.4**
New England Division:														
Massachusetts	-	24	17	1.2	8.2	1.1	1.7	6.8	10.6	3.2	14.0	(D)	0.9	6.0
Connecticut	-	10	9	0.7	4.6	0.7	1.3	4.1	5.8	0.7	6.4	(Z)	BB	(D)
Middle Atlantic Division:														
New York	-	354	198	12.5	103.5	10.3	17.6	65.5	332.4	427.5	756.5	6.1	10.5	160.5
New Jersey	-	79	50	3.0	22.1	2.7	4.2	15.8	46.8	58.9	104.1	(D)	3.0	31.7
Pennsylvania	-	277	249	20.0	129.7	18.4	30.2	108.4	215.3	123.1	326.8	6.1	16.5	114.7
East North Central Division:														
Ohio	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Illinois	E2	14	9	0.9	6.6	0.8	1.4	5.0	14.1	8.5	22.5	(D)	CC	(D)
West North Central Division:														
Missouri	E8	4	2	0.3	1.6	0.3	0.5	1.3	2.0	0.2	2.2	(D)	BB	(D)
South Atlantic Division:														
Maryland	-	11	9	1.0	6.1	0.9	1.5	5.0	9.2	2.0	11.4	(D)	CC	(D)
Virginia	-	27	26	4.1	23.8	4.0	7.0	22.7	33.2	2.8	36.0	0.4	FF	(D)
West Virginia	-	6	5	0.7	4.1	0.6	1.1	3.2	7.8	6.3	14.1	(D)	CC	(D)
North Carolina	-	40	31	5.0	32.2	4.5	8.0	23.7	54.7	58.8	113.1	1.4	3.7	27.6
South Carolina	-	37	33	4.3	25.2	3.9	6.9	22.1	32.7	16.2	48.8	(D)	3.4	16.0
Georgia	-	34	28	3.5	19.6	2.9	5.0	13.4	39.9	34.9	73.7	0.9	1.8	19.6
Florida	E1	66	34	2.8	19.6	2.5	4.3	14.8	34.8	39.0	72.7	1.0	1.3	11.3
East South Central Division:														
Kentucky	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	-	19	15	1.9	9.3	1.7	2.6	7.5	13.2	1.4	15.1	(D)	1.7	10.6
Alabama	-	18	18	2.5	12.7	2.2	3.7	10.4	18.4	3.9	22.4	(D)	EE	(D)
Mississippi	E1	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West South Central Division:														
Louisiana	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oklahoma	E1	4	3	0.2	1.2	0.2	0.4	1.0	1.9	1.2	3.1	(D)	(NA)	(NA)
Texas	E2	41	21	2.3	15.3	2.0	3.6	10.8	30.5	28.9	60.1	0.6	EE	(D)
Mountain Division:														
Arizona	-	6	6	0.7	4.8	0.7	1.2	4.1	7.1	3.0	10.0	(Z)	BB	(D)
Utah	-	12	12	1.8	11.1	1.7	2.9	9.5	17.4	27.3	44.3	0.3	CC	(D)
Pacific Division:														
California	-	298	156	11.3	91.9	9.4	16.1	57.9	232.8	295.5	523.8	(D)	4.6	72.2
Industry 2331-11, Manufacturers														
United States	(NA)	**424**	**164**	**17.8**	**133.3**	**15.6**	**27.0**	**94.8**	**370.6**	**358.3**	**724.2**	**5.6**	**15.8**	**149.1**
Middle Atlantic Division:														
New York	E1	123	49	3.7	30.4	3.2	5.3	19.6	143.9	110.2	252.0	1.1	3.2	27.7
New Jersey	-	21	6	0.4	3.8	0.4	0.6	2.2	13.9	18.2	31.3	0.1	CC	(D)
Pennsylvania	-	35	20	2.3	15.7	2.1	3.6	12.7	35.9	29.1	65.1	(D)	3.3	21.4
East North Central Division:														
Illinois	E2	9	5	0.7	5.4	0.6	1.1	3.9	12.2	7.1	19.3	0.1	BB	(D)
South Atlantic Division:														
North Carolina	-	13	8	1.9	14.1	1.6	3.0	8.5	21.5	32.1	53.0	(D)	EE	(D)
Georgia	-	9	6	1.2	8.8	1.0	1.8	5.3	21.0	12.3	32.9	0.4	BB	(D)
Florida	E1	38	15	1.5	11.5	1.3	2.2	8.6	21.9	29.7	50.9	0.6	CC	(D)
East South Central Division:														
Alabama	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Texas	E1	26	8	1.1	7.7	1.1	1.9	5.9	15.5	10.8	26.4	0.3	EE	(D)
Mountain Division:														
Arizona	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Utah	-	4	4	0.9	6.0	0.9	1.6	5.5	8.9	23.5	32.2	(D)	(NA)	(NA)
Pacific Division:														
California	E1	107	28	2.6	21.8	2.2	3.9	14.5	53.8	69.2	122.9	0.7	CC	(D)
Industry 2331-22, Jobbers														
United States	(NA)	**166**	**89**	**7.0**	**91.7**	**3.6**	**6.8**	**30.1**	**358.9**	**707.4**	**1 046.7**	**7.6**	**6.7**	**203.4**
Middle Atlantic Division:														
New York	-	80	34	2.1	31.7	0.9	1.8	9.4	120.0	302.7	421.0	3.6	2.4	96.0
New Jersey	-	8	4	0.3	4.0	0.1	0.2	1.0	14.2	38.0	51.4	(D)	(NA)	(NA)
Pennsylvania	-	6	5	0.6	7.9	0.2	0.4	2.0	48.1	67.6	104.4	(D)	0.6	18.6
East North Central Division:														
Ohio	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
South Atlantic Division:														
North Carolina	-	5	3	0.3	2.4	0.2	0.4	1.4	12.5	19.4	31.6	(D)	(NA)	(NA)
Georgia	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida	-	8	3	0.2	1.8	0.1	0.3	1.0	4.3	8.5	12.4	0.2	(NA)	(NA)
West South Central Division:														
Texas	E4	4	4	0.4	3.8	0.3	0.6	1.6	9.6	16.4	26.3	0.2	(NA)	(NA)
Pacific Division:														
California	-	47	30	2.6	34.9	1.4	2.7	12.4	131.7	218.2	345.5	1.9	1.1	44.5

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2331-33, Contractors													
United States	(NA)	832	706	59.0	347.1	55.0	92.0	301.8	469.2	103.8	573.3	11.1	40.5	239.8
New England Division:													
Massachusetts	–	18	16	1.1	7.1	1.0	1.6	6.2	8.9	1.4	10.4	0.1	(NA)	(NA)
Connecticut	–	9	9	0.7	4.6	0.7	1.3	4.0	5.7	0.6	6.3	(Z)	BB	(D)
Middle Atlantic Division:														
New York	–	151	115	6.6	41.4	6.2	10.5	36.5	68.5	14.6	83.5	1.3	(NA)	(NA)
New Jersey	–	50	40	2.3	14.4	2.2	3.4	12.6	18.6	2.8	21.4	0.2	(NA)	(NA)
Pennsylvania	–	236	224	17.1	106.1	16.1	26.2	93.7	131.2	26.4	157.4	4.7	(NA)	(NA)
East North Central Division:														
Ohio	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois	–	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West North Central Division:														
Missouri	E8	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
Maryland	–	10	8	0.9	5.8	0.8	1.4	4.7	8.3	0.9	9.4	0.1	BB	(D)
Virginia	–	25	25	4.0	23.0	3.9	6.8	21.9	30.3	2.3	32.6	0.4	(NA)	(NA)
West Virginia	–	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
North Carolina	–	22	20	2.9	15.6	2.7	4.6	13.7	20.8	7.3	28.4	(D)	2.6	14.7
South Carolina	–	34	32	4.2	24.2	3.9	6.8	21.2	32.5	15.1	47.4	0.8	3.1	14.2
Georgia	–	22	20	2.1	11.1	1.7	3.0	7.8	13.5	1.9	15.4	0.4	EE	(D)
Florida	E2	20	16	1.1	6.3	1.0	1.8	5.2	8.6	0.7	9.3	0.2	(NA)	(NA)
East South Central Division:														
Kentucky	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	–	16	15	1.9	9.2	1.7	2.6	7.4	12.9	1.1	14.4	0.2	EE	(D)
Alabama	E1	16	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	5.1
Mississippi	E1	4	4	1.0	5.3	0.9	1.6	4.2	7.8	4.7	12.3	(D)	0.9	5.3
West South Central Division:														
Texas	–	11	9	0.7	3.8	0.7	1.2	3.2	5.4	1.7	7.4	(D)	CC	(D)
Mountain Division:														
Arizona	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Utah	–	8	8	0.9	5.1	0.8	1.3	4.0	8.5	3.9	12.2	0.2	CC	(D)
Pacific Division:														
California	–	144	98	6.1	35.3	5.8	9.5	31.0	47.3	8.1	55.3	0.7	FF	(D)
INDUSTRY 2335, WOMEN'S AND MISSES' DRESSES														
United States	E3	6 112	2 448	168.6	1 153.4	146.8	250.6	849.3	2 152.3	1 912.5	4 047.5	43.9	211.6	1 888.7
New England Division:														
New Hampshire	E6	6	5	0.2	1.3	0.2	0.4	1.1	1.7	0.6	2.3	0.1	0.3	1.5
Vermont	E1	11	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Massachusetts	E2	127	78	6.7	45.0	5.8	10.1	34.7	78.6	60.3	140.1	(D)	10.8	108.2
Rhode Island	E4	13	9	0.5	2.9	0.5	0.8	2.4	7.6	1.9	9.5	(D)	CC	(D)
Connecticut	E3	51	28	1.8	11.1	1.7	2.6	9.7	15.2	3.2	18.2	0.3	3.3	18.3
Middle Atlantic Division:														
New York	E3	2 155	946	51.6	390.8	43.1	73.9	267.5	807.7	940.6	1 738.6	16.5	64.0	716.5
New Jersey	E3	338	141	8.4	56.2	7.6	12.4	44.0	98.7	78.9	177.0	(D)	10.9	89.8
Pennsylvania	E3	495	364	24.5	150.8	22.4	36.6	124.7	228.0	103.6	332.1	3.9	35.0	249.5
East North Central Division:														
Ohio	E2	21	8	0.5	3.4	0.4	0.7	2.2	7.1	8.6	15.4	0.1	0.7	11.8
Indiana	–	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	5.1
Illinois	E1	66	36	4.3	34.1	3.8	6.9	24.9	60.9	86.2	147.1	0.9	4.8	45.0
Michigan	E4	15	2	0.3	1.7	0.2	0.4	1.3	3.2	2.0	5.2	(D)	AA	(D)
Wisconsin	–	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West North Central Division:														
Iowa	E1	10	2	0.5	3.3	0.4	0.7	2.5	3.9	2.2	5.8	(D)	BB	(D)
Missouri	E2	32	18	1.9	14.9	1.7	3.0	12.0	24.7	13.3	38.0	0.2	3.5	33.2
Kansas	E1	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Atlantic Division:														
Delaware	E2	7	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Maryland	E4	16	4	0.6	4.0	0.6	1.0	3.0	7.0	2.5	9.8	(D)	1.6	9.4
Virginia	E1	34	25	3.4	18.4	3.1	4.7	14.6	29.0	10.1	39.7	0.6	FF	(D)
West Virginia	–	16	7	1.3	7.5	1.1	1.9	6.1	11.6	8.5	20.4	(D)	1.2	7.4
North Carolina	E3	85	46	4.5	27.4	4.0	7.1	21.6	45.1	20.7	65.1	1.0	4.3	28.5
South Carolina	E4	37	24	4.9	27.0	4.4	8.0	22.7	38.3	11.9	50.4	(D)	7.8	52.8
Georgia	E2	53	26	2.4	13.2	2.0	3.3	9.9	21.8	16.9	38.7	1.7	3.0	17.9
Florida	E4	452	128	8.2	51.6	7.2	12.4	40.0	95.2	60.4	154.3	2.6	9.6	77.4
East South Central Division:														
Kentucky	E2	10	4	0.4	2.7	0.4	0.6	2.2	3.6	1.7	5.4	0.2	BB	(D)
Tennessee	E4	48	25	3.6	21.3	3.4	5.5	17.7	31.8	11.9	43.6	0.4	3.1	21.0
Alabama	E2	30	17	1.9	10.8	1.7	3.0	8.7	15.9	5.8	21.7	0.6	FF	(D)
Mississippi	E7	13	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.0
West South Central Division:														
Arkansas	–	16	6	1.4	8.8	1.3	2.4	7.4	17.0	13.4	30.3	0.2	1.6	8.8
Louisiana	E5	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oklahoma	E3	14	8	0.7	4.0	0.6	1.1	3.3	6.3	2.8	9.1	0.1	EE	(D)
Texas	E1	176	75	6.7	51.2	5.3	9.7	29.8	95.5	87.3	180.8	2.9	9.4	66.6
Mountain Division:														
Arizona	E2	19	2	0.2	1.1	0.2	0.3	0.8	1.9	1.4	3.2	(D)	(NA)	(NA)
Pacific Division:														
California	E3	1 585	349	23.0	159.1	20.1	34.7	112.7	346.5	328.9	671.3	5.7	21.2	208.1
Hawaii	E1	59	27	1.9	12.8	1.5	2.6	7.8	21.2	16.1	37.0	0.2	1.7	15.8

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2335-11, Manufacturers													
United States	(NA)	**3 444**	**826**	**60.0**	**418.8**	**51.7**	**90.4**	**302.5**	**851.9**	**547.6**	**1 496.5**	**16.3**	**68.2**	**583.2**
New England Division:													
Massachusetts	E4	58	26	2.2	15.9	1.9	3.4	11.6	28.3	22.2	51.7	0.8	1.8	13.7
Rhode Island	E4	7	4	0.2	1.2	0.2	0.3	0.9	5.0	1.8	6.7	0.1	AA	(D)
Connecticut	E4	17	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	E5	1 176	331	20.2	145.5	17.2	30.3	102.8	317.8	263.3	599.7	7.0	19.5	179.1
New Jersey	E9	169	33	2.1	13.7	1.9	3.3	10.4	25.3	19.6	45.0	0.6	2.0	14.3
Pennsylvania	E6	151	64	4.6	32.7	3.9	6.7	23.3	63.4	53.2	117.5	1.2	6.3	47.7
East North Central Division:														
Ohio	E8	12	5	0.2	1.2	0.2	0.5	0.9	2.2	1.6	3.8	(Z)	(NA)	(NA)
Illinois	–	33	12	1.6	13.8	1.4	2.3	9.3	26.0	18.6	44.4	0.2	2.4	24.5
West North Central Division:														
Missouri	E2	21	11	1.3	9.7	1.2	2.0	7.7	15.6	10.1	25.8	0.1	2.4	25.0
Kansas	E1	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
Maryland	E8	10	2	0.2	1.3	0.2	0.3	1.0	2.5	1.8	4.6	(D)	BB	(D)
Virginia	E2	16	8	1.3	7.2	1.1	1.5	5.5	13.8	7.6	22.1	0.1	CC	(D)
North Carolina	E4	52	19	1.9	13.4	1.6	2.9	9.7	26.5	17.9	43.7	0.6	(NA)	(NA)
South Carolina	E9	16	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Georgia	E5	28	7	0.6	3.3	0.5	0.6	2.6	6.4	5.2	11.5	0.2	CC	(D)
Florida	E6	288	51	3.5	21.6	2.9	5.0	16.1	43.2	31.5	77.4	0.8	(NA)	(NA)
East South Central Division:														
Kentucky	E2	7	2	0.2	0.9	0.1	0.2	0.6	1.5	1.5	3.1	0.1	(NA)	(NA)
Tennessee	E6	33	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Alabama	E3	15	6	0.5	3.3	0.5	0.9	2.6	4.7	4.9	9.7	(D)	BB	(D)
Mississippi	E8	11	4	0.2	0.9	0.1	0.2	0.7	1.7	1.3	3.0	0.1	BB	(D)
West South Central Division:														
Arkansas	–	10	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Oklahoma	E2	10	4	0.3	1.7	0.2	0.4	1.2	2.4	2.4	4.8	(Z)	BB	(D)
Texas	E2	101	25	2.3	16.6	2.1	3.7	11.6	39.4	23.8	62.6	0.7	FF	(D)
Mountain Division:														
Arizona	E7	14	2	0.2	1.0	0.2	0.3	0.7	1.6	1.3	2.8	(D)	(NA)	(NA)
Pacific Division:														
California	E6	1 042	151	10.9	74.3	9.5	16.7	54.6	147.9	113.3	260.6	2.5	(NA)	(NA)
Hawaii	–	41	20	1.6	10.7	1.2	2.1	6.3	18.3	14.0	32.0	0.2	(NA)	(NA)
Industry 2335-22, Jobbers														
United States	(NA)	**449**	**197**	**14.8**	**183.0**	**8.2**	**15.7**	**70.1**	**549.1**	**1 135.1**	**1 670.4**	**10.6**	**21.3**	**587.5**
New England Division:														
Massachusetts	–	10	4	0.5	5.5	0.3	0.6	2.8	17.4	34.5	51.7	(D)	EE	(D)
Middle Atlantic Division:														
New York	E1	254	131	7.9	99.6	4.0	7.7	37.0	291.5	650.0	934.9	5.2	(NA)	(NA)
New Jersey	–	10	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pennsylvania	E1	12	5	0.6	7.4	0.4	0.9	3.6	20.6	33.3	53.7	0.3	(NA)	(NA)
East North Central Division:														
Illinois	E1	6	4	0.8	8.3	0.7	1.5	5.7	18.5	64.4	83.4	(D)	(NA)	(NA)
South Atlantic Division:														
West Virginia	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida	E1	19	5	0.2	3.2	0.1	0.2	1.0	11.1	20.5	30.9	0.1	(NA)	(NA)
West South Central Division:														
Texas	–	13	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	–	99	37	2.5	31.2	1.4	2.8	11.1	119.9	200.9	317.4	1.3	(NA)	(NA)
Industry 2335-33, Contractors														
United States	(NA)	**2 219**	**1 425**	**93.8**	**551.6**	**85.9**	**144.5**	**476.7**	**751.3**	**129.8**	**880.7**	**17.0**	**122.6**	**721.5**
New England Division:														
New Hampshire	–	3	3	0.2	0.9	0.2	0.3	0.8	1.1	0.1	1.1	(D)	(NA)	(NA)
Vermont	–	4	3	0.2	0.9	0.2	0.2	0.8	1.3	0.1	1.4	(D)	(NA)	(NA)
Massachusetts	E1	59	48	4.0	23.5	3.7	6.0	20.3	32.9	3.6	36.8	0.6	(NA)	(NA)
Rhode Island	E3	6	5	0.3	1.7	0.3	0.5	1.5	2.6	0.2	2.8	(D)	(NA)	(NA)
Connecticut	–	33	26	1.6	10.0	1.5	2.3	8.8	12.8	1.6	14.4	0.1	(NA)	(NA)
Middle Atlantic Division:														
New York	E2	725	484	23.5	145.8	21.8	35.9	127.7	198.4	41.5	239.6	4.6	(NA)	(NA)
New Jersey	E1	159	105	5.8	34.3	5.4	8.6	30.0	47.0	11.5	58.6	0.9	(NA)	(NA)
Pennsylvania	–	332	295	19.3	110.7	18.1	28.9	97.8	144.0	17.0	160.8	2.4	(NA)	(NA)
East North Central Division:														
Ohio	E3	5	2	0.2	1.1	0.2	0.2	0.8	1.4	0.1	1.5	(Z)	(NA)	(NA)
Indiana	–	6	5	0.4	2.7	0.4	0.6	2.2	4.7	0.6	5.3	(Z)	(NA)	(NA)
Illinois	E2	27	20	1.8	11.9	1.7	3.0	9.6	15.7	2.8	18.4	0.2	(NA)	(NA)
Michigan	E5	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Wisconsin	–	5	3	0.3	1.7	0.2	0.4	1.5	2.1	0.2	2.2	0.1	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2335-33, Contractors—Con.														
West North Central Division:														
Iowa	–	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri	–	9	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Delaware	E2	5	5	0.2	1.2	0.2	0.3	1.1	1.9	0.1	2.0	(Z)	(NA)	(NA)
Maryland	–	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Virginia	–	18	17	2.2	11.2	2.0	3.3	9.0	15.2	2.5	17.7	0.4	(NA)	(NA)
West Virginia	–	8	4	0.8	4.4	0.7	1.3	3.5	6.2	0.3	6.5	(D)	(NA)	(NA)
North Carolina	E2	33	27	2.7	14.0	2.5	4.2	11.9	18.6	2.8	21.4	0.5	(NA)	(NA)
South Carolina	E1	20	16	3.9	20.7	3.4	6.3	17.8	24.2	2.5	26.7	1.3	(NA)	(NA)
Georgia	E2	22	18	1.7	9.4	1.5	2.7	7.3	12.3	1.5	13.7	0.5	(NA)	(NA)
Florida	E2	145	72	4.5	26.8	4.2	7.2	23.0	40.9	8.3	49.1	1.6	(NA)	(NA)
East South Central Division:														
Kentucky	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	–	14	13	2.4	13.7	2.3	3.8	12.3	17.1	1.6	18.6	0.2	(NA)	(NA)
Alabama	E1	15	11	1.4	7.5	1.2	2.1	6.1	11.1	0.9	12.0	0.2	(NA)	(NA)
West South Central Division:														
Arkansas	–	6	4	0.5	2.3	0.4	0.7	1.9	4.5	0.2	4.7	(D)	(NA)	(NA)
Oklahoma	E6	4	4	0.4	2.3	0.4	0.7	2.0	3.9	0.4	4.3	0.1	(NA)	(NA)
Texas	–	62	46	3.2	19.7	2.9	5.3	16.1	26.3	7.2	33.9	0.5	(NA)	(NA)
Pacific Division:														
California	E2	444	161	9.7	53.7	9.1	15.2	47.0	78.7	14.7	93.3	1.9	(NA)	(NA)
Hawaii	E1	16	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDUSTRY 2337, WOMEN'S AND MISSES' SUITS AND COATS														
United States	**E1**	**1 677**	**1 071**	**84.9**	**655.3**	**72.8**	**123.6**	**469.5**	**1 432.0**	**1 483.5**	**2 917.3**	**22.0**	**75.9**	**839.8**
New England Division:														
Massachusetts	–	99	71	6.3	53.2	5.1	8.5	34.3	141.6	174.0	312.9	(D)	5.1	61.8
Rhode Island	–	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Connecticut	–	33	25	2.2	18.2	1.5	2.9	10.0	39.2	57.4	95.3	0.7	EE	(D)
Middle Atlantic Division:														
New York	E1	653	353	21.0	186.7	17.2	30.3	124.3	422.6	597.5	1 015.8	5.4	25.1	353.0
New Jersey	E2	280	199	12.4	88.6	11.2	18.4	72.5	157.8	103.8	261.2	(D)	12.3	90.6
Pennsylvania	–	72	60	5.3	38.9	4.5	7.5	28.7	88.5	76.5	163.3	0.9	3.4	22.1
East North Central Division:														
Ohio	E4	10	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.2
Indiana	–	7	4	0.5	3.2	0.4	0.7	2.4	5.4	4.8	10.1	(D)	0.7	4.8
Illinois	–	30	21	1.9	13.9	1.7	2.9	10.8	26.0	13.7	40.4	0.2	1.7	19.1
Michigan	–	4	3	0.3	2.2	0.2	0.3	1.2	3.0	2.7	5.7	(D)	(NA)	(NA)
Wisconsin	–	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West North Central Division:														
Minnesota	–	13	9	0.8	5.4	0.7	1.0	4.2	21.5	10.1	31.8	(D)	0.7	6.2
Missouri	–	21	16	2.2	19.2	1.8	2.7	13.3	38.5	32.3	70.2	0.3	2.4	26.0
South Dakota	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nebraska	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Kansas	E5	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
Maryland	–	11	6	1.0	6.6	0.9	1.4	5.8	9.8	2.0	11.6	(D)	CC	(D)
Virginia	–	7	7	0.8	4.4	0.7	1.2	3.6	6.7	1.9	8.4	(D)	CC	(D)
West Virginia	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina	E2	19	14	1.9	11.5	1.7	2.9	8.6	17.5	10.5	28.2	(D)	0.4	1.7
South Carolina	–	18	15	1.6	12.6	1.3	2.3	7.0	42.3	53.1	95.5	(D)	CC	(D)
Georgia	–	15	12	1.1	7.1	1.1	1.8	6.0	13.2	7.9	21.1	(D)	1.1	6.9
Florida	–	47	26	2.5	16.5	2.3	3.6	13.0	30.6	15.9	46.3	(D)	1.8	12.9
East South Central Division:														
Kentucky	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Tennessee	–	16	12	2.2	12.4	1.8	3.3	9.6	31.4	31.5	65.4	0.3	EE	(D)
Alabama	–	11	11	1.8	11.6	1.7	2.7	9.2	19.1	2.6	21.4	(D)	(NA)	(NA)
West South Central Division:														
Arkansas	E2	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Oklahoma	–	3	3	0.3	1.3	0.3	0.4	1.2	4.2	2.0	6.1	(D)	(NA)	(NA)
Texas	–	55	37	4.2	30.6	3.5	6.3	21.9	85.2	56.7	141.7	0.5	EE	(D)
Mountain Division:														
Colorado	E9	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Utah	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	–	12	7	0.5	4.0	0.5	0.8	3.5	5.8	3.6	9.5	0.1	BB	(D)
California	–	218	119	8.6	67.6	7.5	13.0	47.8	153.7	173.1	336.1	(D)	6.2	75.6

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977												1972	
		All establishments		All employees		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2337-11, Manufacturers														
United States	(NA)	445	210	22.7	173.6	19.4	33.2	124.7	406.7	398.4	806.4	4.1	(NA)	(NA)
New England Division:														
Massachusetts	E4	12	2	0.2	2.6	0.2	0.4	1.6	4.2	3.7	7.9	(Z)	(NA)	(NA)
Connecticut	E2	7	5	0.7	4.7	0.5	0.9	2.9	9.1	9.8	18.4	0.4	(NA)	(NA)
Middle Atlantic Division:														
New York	E2	177	66	5.6	44.8	4.8	8.4	32.0	102.0	104.0	206.3	1.1	(NA)	(NA)
New Jersey	E5	32	13	1.3	10.1	1.2	2.0	7.4	23.8	35.6	60.2	(D)	(NA)	(NA)
Pennsylvania	-	14	10	0.6	5.1	0.5	1.0	4.1	14.8	11.7	25.8	(D)	(NA)	(NA)
East North Central Division:														
Indiana	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois	-	15	8	0.6	4.9	0.5	0.8	3.5	10.2	8.5	18.9	0.1	(NA)	(NA)
Wisconsin	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:														
Minnesota	-	10	7	0.7	4.7	0.6	0.9	3.7	19.2	9.8	29.2	(D)	(NA)	(NA)
Missouri	-	14	9	1.9	17.4	1.6	2.3	12.0	34.3	31.3	65.2	0.2	(NA)	(NA)
South Atlantic Division:														
Virginia	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina	E3	8	5	0.8	5.2	0.6	1.0	3.2	9.6	9.3	19.2	(D)	(NA)	(NA)
South Carolina	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida	-	17	6	0.5	3.3	0.4	0.7	2.4	6.4	5.5	11.9	(D)	(NA)	(NA)
East South Central Division:														
Tennessee	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Alabama	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Oklahoma	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas	-	22	17	2.1	15.5	1.8	3.3	11.3	33.8	36.8	70.2	(D)	(NA)	(NA)
Mountain Division:														
Colorado	E9	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Utah	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	E2	71	29	3.1	24.9	2.7	4.7	17.5	62.1	55.9	119.3	0.7	(NA)	(NA)
Industry 2337-22, Jobbers														
United States	(NA)	316	152	12.1	149.0	6.7	13.4	62.2	518.0	1 011.1	1 527.0	9.3	(NA)	(NA)
New England Division:														
Massachusetts	-	21	12	1.4	18.0	0.5	0.9	4.7	84.5	162.3	243.6	1.6	(NA)	(NA)
Connecticut	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	-	194	87	5.6	72.7	3.2	6.1	31.7	210.4	477.5	683.3	3.1	(NA)	(NA)
New Jersey	-	24	14	1.1	10.7	0.8	1.6	6.4	31.7	57.3	88.3	(D)	(NA)	(NA)
Pennsylvania	-	7	6	0.6	8.1	0.3	0.7	2.7	40.0	62.5	101.5	0.4	(NA)	(NA)
East North Central Division:														
Wisconsin	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
South Carolina	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Texas	E1	8	4	0.4	4.0	0.2	0.4	1.5	33.9	15.8	50.0	0.1	(NA)	(NA)
Pacific Division:														
California	-	38	19	1.3	16.6	0.9	1.7	7.6	49.1	111.2	168.0	2.4	(NA)	(NA)
Industry 2337-33, Contractors														
United States	(NA)	915	708	50.1	332.4	46.6	76.9	282.4	506.7	73.3	580.6	8.6	(NA)	(NA)
New England Division:														
Massachusetts	-	66	57	4.7	32.7	4.4	7.2	28.0	52.9	8.0	61.3	(D)	(NA)	(NA)
Rhode Island	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Connecticut	-	22	19	0.8	5.4	0.7	1.4	4.5	8.5	0.9	10.0	0.1	(NA)	(NA)
Middle Atlantic Division:														
New York	-	281	199	9.7	68.9	9.2	15.7	60.4	109.6	15.4	124.9	1.1	(NA)	(NA)
New Jersey	E1	204	172	9.9	67.9	9.2	14.7	58.6	102.3	10.9	112.7	1.7	(NA)	(NA)
Pennsylvania	-	51	44	4.0	25.6	3.7	5.8	21.9	33.7	2.4	35.9	0.4	(NA)	(NA)
East North Central Division:														
Ohio	E3	7	7	0.9	5.1	0.9	1.3	4.4	7.2	0.4	7.6	(D)	(NA)	(NA)
Indiana	-	5	2	0.2	1.1	0.2	0.3	1.0	1.3	0.3	1.6	(D)	(NA)	(NA)
Illinois	-	15	13	1.3	8.9	1.2	2.0	7.3	15.8	5.2	21.5	0.1	(NA)	(NA)
Michigan	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Wisconsin	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:														
Missouri	-	6	6	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Dakota	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nebraska	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2337-33, Contractors—Con.													
South Atlantic Division:													
Maryland	–	6	6	1.0	6.3	0.9	1.4	5.7	9.0	0.8	9.6	0.2	(NA)	(NA)
Virginia	–	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West Virginia	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina	–	10	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Carolina	–	13	11	1.1	5.9	0.9	1.6	4.5	11.1	1.5	12.4	0.1	(NA)	(NA)
Georgia	–	10	9	0.7	4.6	0.7	1.2	4.0	5.6	1.5	7.1	(D)	(NA)	(NA)
Florida	–	25	18	1.9	12.1	1.8	2.7	9.9	21.0	3.1	23.9	0.3	(NA)	(NA)
East South Central Division:														
Kentucky	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	E1	10	9	1.2	6.5	1.1	1.9	5.2	9.4	0.6	9.9	(D)	(NA)	(NA)
Alabama	E1	8	8	1.3	7.2	1.2	1.9	5.8	8.8	0.6	9.3	(D)	(NA)	(NA)
West South Central Division:														
Arkansas	E2	5	5	1.0	5.7	0.9	1.4	4.9	7.8	0.8	8.5	(D)	(NA)	(NA)
Texas	–	25	16	1.7	11.1	1.5	2.6	9.0	17.5	4.1	21.5	0.2	(NA)	(NA)
Pacific Division:														
Washington	–	8	5	0.4	3.4	0.4	0.7	3.1	4.7	2.1	6.8	(D)	(NA)	(NA)
California	–	109	71	4.1	26.1	3.9	6.6	22.6	42.5	6.0	48.8	0.5	(NA)	(NA)
INDUSTRY 2339, WOMEN'S AND MISSES' OUTERWEAR, N.E.C.														
United States	**E1**	**1 802**	**1 072**	**104.4**	**735.3**	**88.3**	**152.1**	**530.8**	**1 579.5**	**1 732.6**	**3 294.7**	**42.4**	**82.1**	**781.0**
New England Division:														
New Hampshire	–	8	8	0.5	3.7	0.5	0.8	2.5	8.2	2.6	10.8	0.2	BB	(D)
Massachusetts	E1	60	41	3.0	22.5	2.4	3.8	14.8	43.3	78.0	120.8	(D)	2.3	20.4
Rhode Island	E6	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Connecticut	–	12	6	0.6	4.4	0.5	1.0	3.6	6.6	3.8	10.2	(D)	0.9	10.9
Middle Atlantic Division:														
New York	E2	594	315	21.2	168.6	17.4	28.9	110.0	435.2	639.8	1 060.9	9.2	16.0	195.3
New Jersey	E1	97	57	4.0	31.4	3.5	6.2	23.4	75.4	82.7	157.2	(D)	3.6	37.9
Pennsylvania	E1	129	92	8.9	56.6	8.1	13.2	46.6	93.1	65.3	157.1	1.6	8.4	64.0
East North Central Division:														
Ohio	–	14	10	1.8	18.2	1.3	2.6	12.2	24.6	42.0	69.4	(D)	EE	(D)
Indiana	–	6	5	0.6	3.9	0.5	0.9	3.4	9.8	7.9	18.1	(D)	CC	(D)
Illinois	E1	23	9	0.8	3.8	0.4	0.7	2.7	6.8	3.9	10.9	0.2	CC	(D)
Wisconsin	E2	6	3	0.2	1.3	0.2	0.3	0.9	2.5	0.5	3.0	(D)	CC	(D)
West North Central Division:														
Minnesota	E4	8	5	0.3	1.5	0.2	0.4	1.2	2.9	1.9	4.8	(D)	(NA)	(NA)
Iowa	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Missouri	E2	18	16	2.1	14.5	1.9	3.1	11.0	25.4	19.5	45.0	0.3	EE	(D)
Nebraska	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas	–	4	3	0.3	1.8	0.3	0.4	1.4	2.4	2.9	5.1	(D)	BB	(D)
South Atlantic Division:														
Maryland	–	20	13	1.1	8.0	0.9	1.6	5.2	25.3	15.9	39.5	(D)	0.9	11.5
Virginia	E1	30	29	4.2	25.3	3.9	6.7	21.8	34.2	20.3	54.4	1.2	4.5	27.3
West Virginia	–	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
North Carolina	–	56	39	5.8	37.2	4.8	8.4	28.5	75.9	113.5	189.3	2.2	6.7	62.6
South Carolina	–	31	25	4.2	23.2	3.5	6.1	18.5	33.1	8.4	41.4	(D)	EE	(D)
Georgia	–	51	40	4.0	26.1	3.4	6.1	18.7	54.2	73.4	129.0	1.8	2.9	23.3
Florida	E2	101	46	3.4	22.9	3.0	5.1	16.2	46.7	50.7	95.2	0.8	2.7	24.2
East South Central Division:														
Kentucky	–	7	7	2.2	12.5	1.9	3.4	10.9	20.7	10.6	31.0	0.3	EE	(D)
Tennessee	E2	34	27	5.0	29.0	4.3	7.6	23.3	55.1	25.6	79.4	1.6	FF	(D)
Alabama	E3	20	14	1.5	8.9	1.4	2.5	6.7	15.2	7.3	22.5	0.3	EE	(D)
Mississippi	–	15	14	2.6	18.0	2.3	3.9	14.1	39.7	54.0	94.6	1.8	1.5	9.1
West South Central Division:														
Arkansas	–	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Louisiana	E2	7	2	0.3	1.4	0.2	0.4	1.3	1.5	0.3	2.0	(D)	BB	(D)
Oklahoma	E5	3	2	0.2	1.0	0.2	0.3	0.9	1.2	0.3	1.5	(D)	CC	(D)
Texas	E1	56	47	7.3	46.1	6.1	11.1	35.1	114.6	84.2	196.7	(D)	4.2	43.5
Mountain Division:														
Colorado	E6	5	2	0.3	1.6	0.2	0.4	1.3	2.6	0.6	3.1	(D)	BB	(D)
Utah	–	6	3	0.2	1.4	0.2	0.3	1.2	2.3	2.4	4.5	0.1	AA	(D)
Pacific Division:														
Washington	E1	9	7	0.8	6.2	0.7	1.2	4.6	7.7	7.8	17.3	(D)	AA	(D)
Oregon	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California	E1	318	158	14.2	114.3	11.5	20.3	73.0	271.4	271.9	542.4	(D)	9.3	110.2
Hawaii	E5	16	5	0.4	2.6	0.4	0.6	2.0	4.6	3.0	7.8	0.1	CC	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2339-11, Manufacturers														
United States	(NA)	831	338	39.1	295.3	32.4	56.8	202.8	699.0	663.7	1 362.1	19.0	29.7	325.5
New England Division:														
New Hampshire	E1	3	3	0.2	1.5	0.1	0.2	0.9	5.1	2.4	7.3	(D)	(NA)	(NA)
Massachusetts	E2	27	13	1.0	8.4	0.8	1.3	4.7	21.9	32.4	54.2	0.5	(NA)	(NA)
Middle Atlantic Division:														
New York	E2	281	99	8.8	68.7	7.5	13.0	47.7	153.7	161.4	311.9	4.3	(NA)	(NA)
New Jersey	E4	36	9	0.7	4.7	0.6	1.1	3.5	13.3	9.7	22.8	0.3	(NA)	(NA)
Pennsylvania	E3	40	16	1.1	7.7	1.0	1.6	5.8	19.1	15.8	35.1	0.4	(NA)	(NA)
East North Central Division:														
Ohio	–	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois	E1	12	3	0.2	1.4	0.1	0.2	0.8	3.1	3.1	6.4	0.1	(NA)	(NA)
West North Central Division:														
Minnesota	–	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri	E2	10	9	1.4	10.5	1.2	2.0	7.5	20.0	19.0	39.0	0.2	(NA)	(NA)
Nebraska	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Virginia	–	4	4	0.3	2.2	0.3	0.5	1.6	5.8	5.3	11.0	(D)	(NA)	(NA)
North Carolina	–	23	12	2.2	15.6	1.7	3.1	11.2	32.3	42.2	73.2	(D)	(NA)	(NA)
South Carolina	–	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	E1	22	13	1.2	8.2	1.0	1.7	5.8	19.1	13.8	32.9	1.0	(NA)	(NA)
Florida	E3	60	19	1.9	13.2	1.6	2.9	9.3	32.0	23.3	54.7	(D)	(NA)	(NA)
East South Central Division:														
Kentucky	–	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	E3	15	9	1.8	11.5	1.6	2.8	8.8	30.9	20.7	50.6	0.8	(NA)	(NA)
Alabama	E3	12	7	0.9	5.5	0.8	1.4	3.7	11.3	6.8	18.0	0.1	(NA)	(NA)
Mississippi	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Arkansas	–	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas	E1	31	23	4.6	32.3	4.0	7.3	24.4	81.2	71.9	151.9	4.6	(NA)	(NA)
Mountain Division:														
Utah	–	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	E1	7	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California	E1	161	58	6.7	57.3	5.1	9.0	32.4	157.0	123.5	283.3	2.2	(NA)	(NA)
Hawaii	E6	11	3	0.3	1.7	0.2	0.4	1.2	3.3	2.9	6.4	0.1	(NA)	(NA)
Industry 2339-22, Jobbers														
United States	(NA)	189	111	11.1	111.9	6.5	12.2	46.2	438.7	995.1	1 421.1	7.0	(NA)	(NA)
New England Division:														
Massachusetts	–	8	7	0.6	5.3	0.3	0.4	2.3	10.2	44.7	54.6	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	–	94	46	4.2	47.3	2.2	4.0	15.7	210.0	470.0	689.5	3.6	(NA)	(NA)
New Jersey	–	8	6	0.5	7.0	0.3	0.5	3.3	36.0	70.6	106.1	0.3	(NA)	(NA)
Pennsylvania	–	7	4	0.6	5.6	0.5	0.9	3.2	18.4	41.9	59.2	(D)	(NA)	(NA)
East North Central Division:														
Indiana	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Maryland	–	5	3	0.3	3.6	0.2	0.4	1.4	19.3	13.9	31.6	(D)	(NA)	(NA)
North Carolina	–	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	–	10	9	0.5	5.3	0.3	0.5	1.8	19.2	58.1	79.4	0.1	(NA)	(NA)
Florida	E1	12	7	0.5	3.7	0.3	0.6	1.8	6.7	26.0	31.1	0.2	(NA)	(NA)
East South Central Division:														
Mississippi	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Texas	–	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	E1	28	18	1.8	19.1	1.0	2.1	7.4	61.1	136.9	195.2	1.3	(NA)	(NA)
Industry 2339-33, Contractors														
United States	(NA)	782	623	54.3	328.1	49.3	83.1	281.8	441.8	73.7	511.5	16.4	(NA)	(NA)
New England Division:														
New Hampshire	–	5	5	0.4	2.2	0.3	0.6	1.6	3.2	0.3	3.4	0.1	(NA)	(NA)
Massachusetts	–	25	21	1.4	8.8	1.4	2.0	7.9	11.2	0.9	12.0	0.4	(NA)	(NA)
Connecticut	–	6	5	0.5	3.9	0.4	0.9	3.4	4.0	0.3	4.2	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	E1	219	170	8.2	52.6	7.7	11.9	46.7	71.5	8.3	79.5	1.3	(NA)	(NA)
New Jersey	E2	53	42	2.8	19.7	2.6	4.6	16.6	26.0	2.3	28.3	0.5	(NA)	(NA)
Pennsylvania	–	82	72	7.2	43.3	6.7	10.7	37.6	55.6	7.6	62.7	1.1	(NA)	(NA)
East North Central Division:														
Ohio	–	7	6	0.6	4.1	0.5	1.0	3.8	5.0	0.2	5.2	(Z)	(NA)	(NA)
Indiana	–	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois	–	9	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Wisconsin	E1	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2339-33, Contractors—Con.														
West North Central Division:														
Missouri	-	7	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Maryland	-	10	8	0.7	4.0	0.6	1.1	3.5	4.6	0.3	4.9	0.1	(NA)	(NA)
Virginia	-	26	25	3.9	23.1	3.6	6.3	20.2	28.4	15.0	43.4	1.0	(NA)	(NA)
West Virginia	-	4	3	0.2	1.2	0.2	0.4	1.0	1.7	0.1	1.8	(Z)	(NA)	(NA)
North Carolina	-	29	24	2.9	16.6	2.4	4.1	13.1	22.9	5.9	27.7	0.6	(NA)	(NA)
South Carolina	-	24	23	3.9	21.3	3.3	5.7	17.3	28.2	3.6	31.6	0.5	(NA)	(NA)
Georgia	-	19	18	2.4	12.6	2.2	3.9	11.0	15.8	1.4	16.8	0.7	(NA)	(NA)
Florida	-	29	20	1.1	6.0	1.0	1.6	5.0	7.9	1.4	9.3	0.1	(NA)	(NA)
East South Central Division:														
Kentucky	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	E1	19	18	3.2	17.5	2.7	4.8	14.5	24.2	4.9	28.8	0.8	(NA)	(NA)
Alabama	-	8	7	0.7	3.5	0.6	1.1	3.0	3.9	0.5	4.6	(D)	(NA)	(NA)
Mississippi	-	11	11	1.3	8.4	1.3	2.1	7.9	9.9	0.8	10.7	(D)	(NA)	(NA)
West South Central Division:														
Louisiana	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oklahoma	E4	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas	-	22	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mountain Division:														
Colorado	E9	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Oregon	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California	-	127	82	5.7	37.9	5.4	9.3	33.2	53.3	11.4	63.9	1.2	(NA)	(NA)
Hawaii	-	5	2	0.2	0.9	0.1	0.3	0.9	1.3	0.1	1.5	(D)	(NA)	(NA)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Women's and misses' blouses and waists (SIC 2331)				Women's and misses' dresses (SIC 2335)			
		Total	Manufacturers (SIC 2331-11)	Jobbers (SIC 2331-22)	Contractors (SIC 2331-33)	Total	Manufacturers (SIC 2335-11)	Jobbers (SIC 2335-22)	Contractors (SIC 2335-33)
Primary product specialization ratio[1]	percent	85	77	84	95	93	96	95	97
Coverage ratio[2]	do	75	(NA)	(NA)	(NA)	94	(NA)	(NA)	(NA)
All establishments	number	1 422	424	166	832	6 112	3 444	449	2 219
With 1 to 19 employees	do	463	260	77	126	3 664	2 618	252	794
With 20 to 99 employees	do	713	104	74	535	2 136	721	166	1 249
With 100 employees or more	do	246	60	15	171	312	105	31	176
All employees, average for year	1,000	83.8	17.8	7.0	59.0	168.6	60.0	14.8	93.8
Payroll for year, all employees	mil. dol.	572.2	133.3	91.7	347.1	1 153.4	418.8	183.0	551.6
Production workers:									
Average for year	1,000	74.2	15.6	3.6	55.0	146.8	51.7	8.2	86.9
March	do	75.1	15.9	3.6	55.7	147.7	51.2	8.2	88.4
May	do	75.0	16.0	3.6	55.4	148.2	52.1	8.2	87.9
August	do	73.3	15.1	3.6	54.6	146.5	52.2	8.1	86.2
November	do	73.2	15.2	3.6	54.3	144.6	51.2	8.2	85.1
Hours	millions	125.8	27.0	6.8	92.0	250.6	90.4	15.7	144.5
January to March	do	31.8	6.9	1.7	23.3	63.6	23.2	3.9	36.6
April to June	do	32.3	7.0	1.7	23.6	63.5	22.5	3.9	37.1
July to September	do	30.6	6.5	1.7	22.5	61.2	22.0	4.0	35.2
October to December	do	31.0	6.6	1.7	22.7	62.2	22.7	4.0	35.6
Wages	mil. dol.	426.7	94.8	30.1	301.8	849.3	302.5	70.1	476.7
Cost of materials, etc.	do	1 169.4	358.3	707.4	103.6	1 912.5	647.6	1 135.1	129.8
Materials, parts, containers, etc., consumed	do	747.1	280.3	402.5	64.2	1 251.2	539.7	619.5	92.0
Resales	do	55.2	33.0	19.2	3.0	29.7	5.9	23.3	0.4
Fuels consumed	do	5.7	0.7	0.5	4.5	6.3	1.8	0.7	3.8
Purchased electric energy	do	12.2	2.5	1.3	8.3	21.9	7.6	2.5	11.8
Contract work	do	349.2	41.7	283.9	23.6	603.3	92.5	489.2	21.7
Value of shipments, including resales	do	2 344.2	724.2	1 046.7	573.3	4 047.5	1 496.5	1 670.4	880.7
Value of resales	do	73.2	43.9	26.5	2.8	32.9	7.3	25.1	0.6
Value added by manufacture	do	1 198.6	370.6	358.9	469.2	2 152.3	851.9	549.1	751.3
Manufacturers' inventories:									
Beginning of year	do	198.3	77.0	98.7	22.6	354.0	190.5	129.4	34.1
Finished products	do	81.9	32.4	44.4	5.1	113.2	62.1	42.2	8.9
Work in process	do	44.4	15.7	18.5	10.2	77.6	35.5	29.9	12.2
Materials, supplies, fuel, etc.	do	72.0	28.9	35.8	7.3	163.2	92.8	57.4	13.0
End of year	do	223.8	85.0	116.0	22.8	370.0	184.3	150.9	34.8
Finished products	do	100.3	36.3	59.9	4.2	122.1	64.0	49.2	8.9
Work in process	do	49.9	16.5	22.7	10.7	85.1	35.8	36.7	12.6
Materials, supplies, fuel, etc.	do	73.6	32.1	33.5	7.9	162.8	84.4	65.0	13.3
Capital expenditures for plant and equipment	do	28.1	8.3	7.6	12.2	44.9	16.4	11.0	17.4
New capital expenditures	do	24.3	5.6	7.5	11.1	43.9	16.3	10.6	17.0
New buildings and other structures	do	4.9	1.2	1.5	2.1	10.4	4.0	2.4	4.0
New machinery and equipment	do	19.4	4.4	6.0	9.0	33.5	12.2	8.3	13.0
Used capital expenditures	do	3.8	2.6	0.1	1.1	1.0	0.1	0.4	0.5

See footnotes at end of table.

Table 3a. **Summary Statistics for the Industry: 1977**—Con.

[For explanation of terms, see appendix A]

Item	Unit of measure	Women's and misses' suits and coats (SIC 2337)				Women's and misses' outerwear, n.e.c. (SIC 2339)			
		Total	Manufacturers (SIC 2337-11)	Jobbers (SIC 2337-22)	Contractors (SIC 2337-33)	Total	Manufacturers (SIC 2339-11)	Jobbers (SIC 2339-22)	Contractors (SIC 2339-33)
Primary product specialization ratio[1]	percent	80	87	76	94	81	86	74	91
Coverage ratio[2]	do	83	(NA)	(NA)	(NA)	81	(NA)	(NA)	(NA)
All establishments	number	1 677	445	316	915	1 802	831	189	782
With 1 to 19 employees	do	606	235	164	207	730	493	78	159
With 20 to 99 employees	do	857	138	130	588	789	227	83	479
With 100 employees or more	do	214	72	22	120	283	111	28	144
All employees, average for year	1,000	84.9	22.7	12.1	50.1	104.4	39.1	11.1	54.3
Payroll for year, all employees	mil. dol.	655.3	173.6	149.0	332.4	735.3	295.3	111.9	328.1
Production workers:									
Average for year	1,000	72.8	19.4	6.7	46.6	88.3	32.4	6.5	49.3
March	do	70.5	19.1	6.6	44.8	89.9	33.1	6.5	50.3
May	do	71.3	19.1	6.6	45.5	89.4	33.0	6.6	49.8
August	do	75.9	19.9	6.9	49.0	84.9	30.8	6.4	47.7
November	do	73.5	19.6	6.8	47.0	88.7	32.6	6.6	49.5
Hours	millions	123.6	33.2	13.4	76.9	152.1	56.8	12.2	83.1
January to March	do	29.8	8.1	3.3	18.5	38.5	14.4	3.0	21.2
April to June	do	30.8	8.3	3.4	19.1	38.9	14.8	3.1	21.1
July to September	do	32.3	8.4	3.5	20.3	36.2	13.3	2.9	20.0
October to December	do	30.7	8.4	3.4	19.0	38.5	14.3	3.2	20.9
Wages	mil. dol.	469.5	124.7	62.2	282.4	530.8	202.8	46.2	281.8
Cost of materials, etc.	do	1 483.5	398.4	1 011.1	73.3	1 732.6	663.7	995.1	73.7
Materials, parts, containers, etc., consumed	do	941.8	311.0	574.1	56.2	1 191.6	523.1	624.4	44.1
Resales	do	54.8	40.4	14.0	0.3	67.0	58.1	8.6	0.3
Fuels consumed	do	4.1	0.9	0.5	2.7	4.4	1.4	0.7	2.4
Purchased electric energy	do	14.9	3.1	4.9	6.9	15.0	5.4	2.6	7.0
Contract work	do	467.8	43.1	417.5	7.2	454.6	75.8	358.9	19.9
Value of shipments, including resales	do	2 917.3	808.4	1 527.0	580.6	3 294.7	1 362.1	1 421.1	511.5
Value of resales	do	76.0	57.9	17.8	0.3	70.2	60.1	9.6	0.5
Value added by manufacture	do	1 432.0	406.7	518.0	506.7	1 579.5	699.0	438.7	441.8
Manufacturers' inventories:									
Beginning of year	do	291.6	91.6	157.5	42.3	409.1	215.6	164.0	29.6
Finished products	do	127.2	42.4	68.0	16.6	209.5	112.0	91.4	6.1
Work in process	do	59.0	17.4	29.8	11.7	77.4	36.4	27.1	14.0
Materials, supplies, fuel, etc.	do	105.4	31.7	59.7	13.9	122.2	67.2	45.5	9.6
End of year	do	297.6	88.8	169.6	39.0	433.8	216.4	181.1	36.4
Finished products	do	118.1	38.8	63.9	15.3	223.7	112.3	104.5	6.9
Work in process	do	66.3	17.9	35.9	12.5	80.6	36.8	26.7	17.0
Materials, supplies, fuel, etc.	do	113.2	32.1	69.7	11.3	129.5	67.3	49.8	12.4
Capital expenditures for plant and equipment	do	46.8	27.6	9.6	9.5	48.5	21.2	9.8	17.5
New capital expenditures	do	22.0	4.1	9.3	8.6	42.4	19.0	7.0	16.4
New buildings and other structures	do	7.5	1.4	3.6	2.5	13.8	5.8	1.3	6.7
New machinery and equipment	do	14.5	2.7	5.7	6.1	28.6	13.3	5.6	9.7
Used capital expenditures	do	24.8	23.6	0.3	0.9	6.1	2.1	2.9	1.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Women's and misses' blouses and waists (SIC 2331)		Women's and misses' dresses (SIC 2335)		Women's and misses' suits and coats (SIC 2337)		Women's and misses' outerwear, n.e.c. (SIC 2339)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	(0.9)	19	(1.5)	24	(1.0)	20	(2.0)	18
Response coverage ratio[2] (percent)	56.8	(X)	63.6	(X)	51.5	(X)	52.7	(X)
Machinery	(2.8)	19	2.9	12	(111.1)	88	(5.0)	36
Response coverage ratio[2] (percent)	56.6	(X)	66.3	(X)	62.4	(X)	55.5	(X)
Cost of purchased communication services	3.0	14	(7.3)	28	277.6	1	(5.3)	21
Response coverage ratio[2] (percent)	60.9	(X)	65.8	(X)	55.6	(X)	63.2	(X)
Rental payments	20.2	8	46.3	4	27.7	10	25.6	10
Buildings and other structures	16.1	6	37.4	5	23.4	13	18.2	11
Machinery and equipment	(4.1)	24	8.9	6	4.3	9	7.5	12
Supplemental labor costs	71.4	3	146.0	2	90.8	2	93.9	3
Legal costs	44.9	4	94.3	2	54.1	2	58.4	2
Voluntary costs	26.5	4	51.7	4	36.7	3	35.5	7
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	43.8	8	78.8	9	73.5	7	76.8	8
New capital expenditures	(5.2)	15	14.9	10	8.6	12	(19.4)	30
Used capital expenditures	(1.0)	45	(1.2)	80	0.3	7	3.1	4
Retirements	3.3	13	(6.9)	15	6.5	10	5.8	13
End of year	46.8	7	88.0	8	75.9	7	93.6	9
Machinery and equipment:								
Beginning of year	117.0	6	208.2	4	153.5	5	163.1	8
New capital expenditures	24.9	13	59.6	10	16.4	13	39.6	12
Automobiles, trucks, etc., for highway use[3]	(0.9)	(A)	(0.9)	(A)	(0.9)	(A)	(1.6)	(A)
Computers and peripheral data processing equipment[3]	(2.2)	(A)	(0.8)	(A)	(0.8)	(A)	(0.6)	(A)
All other[3]	(2.4)	(A)	(10.4)	(A)	(8.6)	(A)	(23.0)	(A)
New machinery and equipment, n.s.k.[4]	(9.3)	(A)	(47.5)	(A)	(6.2)	(A)	(14.4)	(A)
Used capital expenditures	(1.7)	58	(0.8)	54	67.3	1	3.1	14
Retirements	8.7	10	21.1	7	57.3	3	11.5	12
End of year	134.9	5	247.6	3	179.9	5	194.2	7
Total gross value of depreciable assets:								
Beginning of year	160.8	5	287.0	4	226.9	6	239.8	7
New capital expenditures	30.1	11	74.5	9	25.0	11	59.1	13
Used capital expenditures	(2.7)	40	(2.0)	52	67.6	1	6.2	8
Retirements	12.0	10	27.8	8	63.8	4	17.3	11
End of year	181.7	4	335.7	3	255.8	5	287.7	7
Depreciation charges during 1977	17.8	4	30.0	4	21.8	11	23.7	8
Buildings and other structures	3.6	8	5.3	14	4.3	7	4.5	8
Machinery and equipment	14.2	4	24.7	3	17.4	14	19.2	8

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2331, WOMEN'S AND MISSES' BLOUSES AND WAISTS												
Total	-	**1 422**	**83.8**	**572.2**	**74.2**	**125.8**	**426.7**	**1 198.6**	**1 169.4**	**2 344.2**	**24.3**	**223.8**
Establishments with an average of—												
1 to 4 employees	E3	172	0.3	3.0	0.3	0.5	2.1	7.4	16.2	26.7	0.3	1.5
5 to 9 employees	E3	103	0.7	6.1	0.6	1.1	3.7	15.4	22.4	37.7	0.2	3.1
10 to 19 employees	E1	188	2.7	22.5	2.1	3.6	12.2	55.8	105.8	160.0	0.7	13.7
20 to 49 employees	-	402	13.4	91.9	11.8	19.0	67.1	218.6	271.4	487.2	4.0	38.8
50 to 99 employees	-	311	21.9	147.5	19.5	33.4	112.2	284.6	248.4	528.1	6.4	43.4
100 to 249 employees	-	209	31.6	205.4	28.4	47.8	159.4	407.1	267.5	670.6	7.5	59.6
250 to 499 employees	-	34	11.4	85.2	9.8	17.5	61.0	195.2	215.5	397.6	4.8	57.3
500 to 999 employees	-	3	(1.8)	(10.6)	(1.7)	(2.9)	(9.1)	(14.6)	(22.0)	(36.2)	(0.5)	(6.4)
Covered by administrative records[2]	E0	210	1.3	9.0	1.3	2.1	6.6	19.3	18.9	38.2	0.3	3.3
Industry 2331-11, Manufacturers												
Total	-	**424**	**17.8**	**133.3**	**15.6**	**27.0**	**94.8**	**370.6**	**358.3**	**724.2**	**5.6**	**85.0**
Establishments with an average of—												
1 to 4 employees	E5	141	0.2	2.3	0.2	0.4	1.7	3.5	5.4	11.9	0.3	1.0
5 to 9 employees	E8	56	0.4	2.7	0.4	0.6	1.9	6.5	6.9	13.4	0.1	1.2
10 to 19 employees	E5	63	0.9	6.0	0.8	1.3	4.1	13.3	15.3	28.6	0.2	2.6
20 to 49 employees	E2	63	2.0	13.7	1.8	3.0	9.7	48.6	36.3	83.5	0.7	7.0
50 to 99 employees	-	41	2.9	22.9	2.5	4.3	15.5	72.2	71.3	142.0	0.9	14.4
100 to 249 employees	-	48	7.1	53.0	6.3	10.5	38.5	159.7	123.5	278.9	2.0	33.4
250 to 499 employees	-	11	(4.3)	(32.8)	(3.7)	(6.8)	(23.5)	(66.8)	(99.7)	(166.0)	(1.5)	(25.3)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	165	0.9	6.2	0.8	1.3	4.3	15.1	16.3	31.4	0.2	2.9
Industry 2331-22, Jobbers												
Total	-	**166**	**7.0**	**91.7**	**3.6**	**6.8**	**30.1**	**358.9**	**707.4**	**1 046.7**	**7.5**	**116.0**
Establishments with an average of—												
1 to 4 employees	-	17	(Z)	0.5	(Z)	(Z)	0.1	3.5	10.8	14.2	(Z)	0.5
5 to 9 employees	-	20	0.1	2.0	0.1	0.2	0.5	6.7	15.1	21.7	(Z)	1.8
10 to 19 employees	-	40	0.6	9.3	0.2	0.5	2.2	32.0	86.7	116.9	0.3	10.8
20 to 49 employees	-	48	1.6	20.8	0.8	1.5	6.4	91.8	219.8	310.5	2.3	29.1
50 to 99 employees	-	26	1.8	21.6	1.0	2.0	7.8	73.4	137.5	207.6	2.3	22.4
100 to 249 employees	-	12	1.6	20.3	1.0	1.7	7.3	69.1	114.6	183.5	1.0	17.7
250 to 499 employees	-	3	(1.2)	(17.4)	(0.5)	(1.1)	(5.8)	(82.4)	(122.9)	(192.3)	(1.5)	(33.7)
Covered by administrative records[2]	E0	8	(Z)	0.4	(Z)	(Z)	0.1	0.8	2.2	3.0	(Z)	0.4
Industry 2331-33, Contractors												
Total	-	**832**	**59.0**	**347.1**	**55.0**	**92.0**	**301.8**	**469.2**	**103.6**	**573.3**	**11.1**	**22.8**
Establishments with an average of—												
1 to 4 employees	E3	14	(Z)	0.3	(Z)	0.1	0.3	0.5	0.1	0.6	(Z)	(Z)
5 to 9 employees	E3	27	0.2	1.5	0.2	0.3	1.3	2.2	0.4	2.6	(Z)	0.1
10 to 19 employees	E1	85	1.2	7.2	1.1	1.8	5.9	10.5	3.8	14.5	0.2	0.4
20 to 49 employees	-	291	9.8	57.5	9.2	14.5	51.0	78.2	15.3	93.3	1.0	2.6
50 to 99 employees	-	244	17.2	103.0	16.1	27.1	89.0	139.0	39.6	178.6	3.1	6.6
100 to 249 employees	-	149	22.8	132.1	21.1	35.6	113.6	178.4	29.5	208.2	4.4	8.5
250 to 499 employees	-	20	(7.8)	(45.6)	(7.3)	(12.5)	(40.8)	(60.6)	(15.0)	(75.6)	(2.4)	(4.7)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	37	0.4	2.4	0.4	0.7	2.1	3.4	0.4	3.7	0.1	0.1
INDUSTRY 2335, WOMEN'S AND MISSES' DRESSES												
Total	E2	**6 112**	**168.6**	**1 153.4**	**146.8**	**250.6**	**849.3**	**2 152.3**	**1 912.5**	**4 047.5**	**43.9**	**370.0**
Establishments with an average of—												
1 to 4 employees	E8	1 861	2.1	16.2	2.1	3.1	10.9	31.1	32.7	66.6	0.5	7.1
5 to 9 employees	E7	770	4.6	31.2	4.3	7.2	23.7	62.6	56.5	119.1	1.5	12.6
10 to 19 employees	E4	1 033	13.7	99.3	11.7	20.5	70.3	197.3	201.8	396.6	4.0	36.2
20 to 49 employees	E2	1 558	49.4	340.8	43.0	72.8	252.0	635.0	597.7	1 229.4	12.6	107.3
50 to 99 employees	E2	578	38.9	248.5	34.7	58.4	194.9	451.0	294.8	743.1	10.5	58.4
100 to 249 employees	E1	254	37.0	248.3	31.8	55.1	182.6	472.8	425.5	889.6	8.2	83.2
250 to 499 employees	-	47	15.2	110.4	12.8	22.7	79.6	207.2	204.5	408.3	(D)	38.6
500 to 999 employees	E1	11	(7.7)	(58.9)	(6.2)	(10.9)	(35.3)	(95.2)	(99.0)	(194.9)	(D)	(26.6)
Covered by administrative records[2]	E9	2 514	16.7	106.8	15.3	26.0	82.4	193.4	133.0	326.5	2.5	36.7
Industry 2335-11, Manufacturers												
Total	E4	**3 444**	**50.0**	**418.8**	**51.7**	**90.4**	**302.5**	**851.9**	**647.6**	**1 496.5**	**16.3**	**184.3**
Establishments with an average of—												
1 to 4 employees	E9	1 521	1.5	10.9	1.5	2.1	7.6	19.8	18.9	41.6	0.3	5.1
5 to 9 employees	E8	531	2.9	19.9	2.8	4.8	15.6	39.6	33.2	72.9	0.9	9.6
10 to 19 employees	E8	566	7.0	69.4	5.9	10.7	34.9	95.4	72.5	166.3	2.2	20.8
20 to 49 employees	E5	562	17.0	117.5	14.5	25.8	84.6	239.2	190.1	428.0	5.1	50.2
50 to 99 employees	E2	159	10.8	75.1	9.3	16.2	54.2	173.3	119.0	291.2	2.7	31.2
100 to 249 employees	E2	84	12.3	83.9	10.5	18.4	60.6	172.9	124.5	294.0	(D)	35.7
250 to 499 employees	E1	16	(4.9)	(35.8)	(4.0)	(7.1)	(25.3)	(64.2)	(44.5)	(107.3)	(D)	(13.2)
500 to 999 employees	E4	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	1 914	11.3	76.2	10.2	17.8	57.1	147.3	113.8	261.2	1.3	33.7

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
Industry 2335-22, Jobbers												
Total	-	**449**	**14.8**	**183.0**	**8.2**	**15.7**	**70.1**	**549.1**	**1 135.1**	**1 670.4**	**10.6**	**150.9**
Establishments with an average of—												
1 to 4 employees	E5	130	0.2	2.4	0.1	0.2	0.9	6.2	13.2	19.3	0.2	1.8
5 to 9 employees	E2	39	0.3	3.0	0.1	0.3	1.0	9.9	21.7	31.4	0.3	2.7
10 to 19 employees	E1	83	1.2	17.7	0.6	1.2	6.1	51.1	116.6	166.9	0.5	13.6
20 to 49 employees	E1	134	4.2	55.7	2.2	4.4	20.5	167.5	361.8	527.5	3.0	45.3
50 to 99 employees	E1	32	2.1	24.3	1.3	2.4	10.9	78.3	141.3	218.3	2.4	17.0
100 to 249 employees	-	22	3.3	39.6	1.7	3.3	14.4	129.6	280.4	404.3	(D)	42.1
250 to 499 employees	-	8	(3.5)	(40.2)	(2.1)	(4.0)	(16.3)	(106.4)	(200.2)	(302.7)	(D)	(28.4)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E9	94	0.3	3.2	0.2	0.3	1.3	7.2	16.3	23.5	0.2	2.3
Industry 2335-33, Contractors												
Total	E1	**2 219**	**93.8**	**551.6**	**86.9**	**144.5**	**476.7**	**751.3**	**129.8**	**880.7**	**17.0**	**34.8**
Establishments with an average of—												
1 to 4 employees	E7	210	0.5	2.9	0.5	0.8	2.5	5.1	0.6	5.7	0.1	0.2
5 to 9 employees	E6	200	1.4	8.2	1.4	2.2	7.2	13.2	1.6	14.7	0.3	0.3
10 to 19 employees	E3	384	5.5	33.8	5.2	8.6	29.2	50.8	12.7	63.4	1.3	1.9
20 to 49 employees	E1	862	28.3	167.6	26.3	42.7	146.9	228.4	45.8	274.0	4.5	11.8
50 to 99 employees	E1	387	25.9	149.0	24.1	39.8	129.9	199.3	34.5	233.5	5.4	10.2
100 to 249 employees	E2	148	21.4	124.8	19.6	33.4	107.6	170.3	20.5	191.3	3.1	5.5
250 to 499 employees	-	23	7.6	48.0	6.9	12.0	39.3	62.9	11.5	74.1	2.2	4.3
500 to 999 employees	-	5	3.3	17.3	3.0	5.1	14.2	21.4	2.5	23.9	0.2	0.6
Covered by administrative records[2]	E0	506	5.1	27.4	4.9	7.9	24.0	38.9	2.9	41.8	1.0	0.7
INDUSTRY 2337, WOMEN'S AND MISSES' SUITS AND COATS												
Total	-	**1 677**	**84.9**	**655.3**	**72.8**	**123.6**	**469.5**	**1 432.0**	**1 483.5**	**2 917.3**	**22.0**	**297.6**
Establishments with an average of—												
1 to 4 employees	E2	229	0.4	3.3	0.3	0.5	2.3	15.9	10.3	28.2	0.1	1.9
5 to 9 employees	E2	138	0.9	8.9	0.8	1.4	5.6	24.2	36.0	60.3	0.4	5.2
10 to 19 employees	-	239	3.4	30.6	2.7	5.0	19.7	66.7	93.7	159.9	0.7	18.3
20 to 49 employees	E1	530	17.4	138.7	15.0	25.4	98.0	277.1	341.2	624.4	3.8	59.8
50 to 99 employees	-	327	22.3	165.4	19.5	33.5	125.4	360.6	274.6	632.9	4.4	52.2
100 to 249 employees	-	176	27.0	194.3	23.9	39.4	147.3	389.0	345.6	734.7	6.5	75.0
250 to 499 employees	-	33	10.6	82.8	8.9	15.5	57.4	191.1	181.1	374.3	4.6	43.2
500 to 999 employees	-	5	2.9	31.2	1.6	3.0	13.8	107.4	201.0	302.5	1.6	42.0
Covered by administrative records[2]	E0	236	1.4	10.3	1.3	2.2	7.7	19.0	17.0	36.0	0.2	4.3
Industry 2337-11, Manufacturers												
Total	E1	**445**	**22.7**	**173.6**	**19.4**	**33.2**	**124.7**	**406.7**	**398.4**	**808.4**	**4.1**	**88.8**
Establishments with an average of—												
1 to 4 employees	E3	138	0.2	2.0	0.2	0.3	1.5	12.3	3.6	16.8	(Z)	0.9
5 to 9 employees	E8	56	0.4	3.1	0.3	0.6	2.1	6.2	6.4	12.5	0.1	1.6
10 to 19 employees	E4	41	0.6	5.1	0.5	0.9	3.5	10.4	10.3	20.8	0.1	3.0
20 to 49 employees	E2	69	2.3	17.9	1.9	3.3	12.4	38.0	37.0	75.2	0.3	9.1
50 to 99 employees	E1	69	4.9	38.1	4.2	7.5	28.1	96.8	96.8	192.7	0.9	19.7
100 to 249 employees	E1	54	8.3	59.2	7.3	12.3	43.4	134.5	143.6	278.8	1.7	27.2
250 to 499 employees	-	17	5.5	44.7	4.6	7.7	31.8	102.6	94.9	119.6	1.6	25.3
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	190	0.9	7.2	0.9	1.5	5.0	13.8	14.9	28.7	0.2	3.9
Industry 2337-22, Jobbers												
Total	-	**316**	**12.1**	**149.0**	**6.7**	**13.4**	**62.2**	**518.0**	**1 011.1**	**1 527.0**	**9.3**	**169.6**
Establishments with an average of—												
1 to 4 employees	E1	44	0.1	0.8	0.1	0.1	0.4	3.4	6.5	10.0	(Z)	0.9
5 to 9 employees	-	38	0.3	3.4	0.2	0.3	1.4	13.5	28.5	42.2	0.3	3.3
10 to 19 employees	-	82	1.1	13.4	0.7	1.3	6.2	35.9	79.1	114.6	0.3	13.4
20 to 49 employees	-	97	3.1	39.7	1.9	3.4	16.7	96.7	285.3	388.5	1.8	38.9
50 to 99 employees	-	33	2.1	25.6	1.1	2.3	10.3	106.6	158.8	263.7	1.4	22.2
100 to 249 employees	-	15	2.2	28.6	1.3	2.6	12.5	108.4	179.0	286.7	2.8	38.8
250 to 499 employees	-	4	1.3	13.5	0.9	1.8	6.5	57.5	79.0	136.6	1.3	12.4
500 to 999 employees	-	3	1.8	24.0	0.7	1.5	8.2	95.9	194.8	284.7	1.4	39.8
Covered by administrative records[2]	E0	7	(Z)	0.4	(Z)	(Z)	0.1	0.8	1.8	2.7	(Z)	0.3
Industry 2337-33, Contractors												
Total	-	**915**	**50.1**	**332.4**	**46.6**	**76.9**	**282.4**	**506.7**	**73.3**	**580.6**	**8.5**	**39.0**
Establishments with an average of—												
1 to 4 employees	E2	47	0.1	0.5	0.1	0.1	0.4	0.2	0.2	1.4	(Z)	0.1
5 to 9 employees	E2	44	0.3	2.4	0.3	0.5	2.1	4.5	1.0	5.5	(Z)	0.3
10 to 19 employees	-	116	1.7	12.1	1.5	2.8	10.0	20.4	4.3	24.6	0.3	2.0
20 to 49 employees	-	363	12.0	80.8	11.2	18.6	68.7	141.8	18.3	159.5	1.6	11.6
50 to 99 employees	-	225	15.3	101.7	14.3	23.7	87.0	157.2	19.0	176.5	2.2	10.3
100 to 249 employees	-	107	16.5	106.4	15.4	24.4	91.4	146.1	23.0	169.1	2.0	9.0
250 to 499 employees	E1	12	3.8	24.7	3.4	6.0	19.0	30.9	7.2	38.1	(2.4)	5.5
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	39	0.5	2.8	0.5	0.7	2.5	4.4	0.3	4.7	0.1	0.1

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2339, WOMEN'S AND MISSES' OUTERWEAR, N.E.C.												
Total	-	**1 802**	**104.4**	**735.3**	**88.3**	**152.1**	**530.8**	**1 579.5**	**1 732.6**	**3 294.7**	**42.4**	**433.8**
Establishments with an average of—												
1 to 4 employees	E5	321	0.5	5.5	0.5	0.8	4.2	9.3	14.5	25.2	0.2	3.4
5 to 9 employees	E4	168	1.1	9.0	1.0	1.7	5.9	21.9	27.5	49.2	0.6	6.3
10 to 19 employees	E3	241	3.5	26.1	2.9	4.9	17.5	54.7	75.4	129.6	1.2	16.0
20 to 49 employees	E1	495	16.2	112.6	14.0	23.3	82.3	237.7	278.7	515.9	5.0	57.4
50 to 99 employees	E1	294	20.5	142.6	17.8	29.6	106.4	328.7	389.7	716.6	6.5	74.4
100 to 249 employees	-	209	32.5	228.9	27.1	47.5	162.5	500.2	479.1	958.9	17.3	148.0
250 to 499 employees	-	60	20.6	141.1	17.4	30.7	105.0	281.8	288.0	571.9	8.1	69.8
500 to 999 employees	-	13	8.5	63.3	6.8	12.2	41.8	134.9	163.5	301.8	1.8	54.8
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	361	2.0	14.0	1.8	2.9	10.0	30.3	29.3	59.6	0.7	8.7
Industry 2339-11, Manufacturers												
Total	E1	**831**	**39.1**	**295.3**	**32.4**	**56.8**	**202.8**	**699.0**	**663.7**	**1 362.1**	**19.0**	**216.4**
Establishments with an average of—												
1 to 4 employees	E6	267	0.4	4.5	0.4	0.6	3.6	6.5	10.4	18.5	0.1	2.2
5 to 9 employees	E8	111	0.7	5.5	0.7	1.1	3.8	12.4	12.7	25.1	0.4	3.9
10 to 19 employees	E6	115	1.6	11.8	1.3	2.3	7.9	27.4	29.5	56.7	0.8	8.1
20 to 49 employees	E4	147	4.7	33.7	3.9	6.8	23.3	81.2	70.3	150.0	2.3	22.1
50 to 99 employees	E2	80	5.6	41.3	4.8	8.0	29.3	101.9	84.3	186.1	1.4	28.1
100 to 249 employees	-	78	12.2	91.7	10.2	17.9	63.1	220.3	208.5	425.9	6.3	70.5
250 to 499 employees	-	28	9.8	70.9	8.3	14.8	51.0	169.4	165.2	334.3	5.0	45.4
500 to 999 employees	-	4	2.9	29.6	2.1	3.8	15.6	69.6	66.8	139.9	1.0	32.4
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	304	1.5	11.2	1.4	2.2	7.7	25.7	26.0	51.7	0.6	7.9
Industry 2339-22, Jobbers												
Total	-	**189**	**11.1**	**111.9**	**6.5**	**12.2**	**46.2**	**438.7**	**995.1**	**1 421.1**	**7.0**	**181.1**
Establishments with an average of—												
1 to 4 employees	E2	24	0.1	0.4	(Z)	0.1	0.2	1.9	4.0	5.7	0.1	1.2
5 to 9 employees	-	23	0.2	1.9	0.1	0.2	0.8	7.1	14.4	21.4	0.1	2.3
10 to 19 employees	-	31	0.5	5.7	0.3	0.5	2.3	14.9	42.8	57.5	0.2	7.0
20 to 49 employees	-	55	1.6	18.4	0.9	1.7	6.7	75.2	198.0	274.7	1.0	30.1
50 to 99 employees	-	28	2.0	22.5	1.0	1.9	7.6	126.9	282.7	408.0	2.1	37.9
100 to 249 employees	-	19	3.2	34.4	1.9	3.5	13.0	130.7	246.8	362.3	(D)	60.9
250 to 499 employees	-	6	2.1	17.0	1.1	2.0	7.1	45.3	113.4	162.0	(D)	20.8
500 to 999 employees	-	3	1.5	11.6	1.3	2.3	8.6	36.7	92.9	129.5	(D)	21.0
Covered by administrative records[2]	E0	16	0.1	0.6	(Z)	0.1	0.3	1.3	3.0	4.3	(Z)	0.6
Industry 2339-33, Contractors												
Total	-	**782**	**54.3**	**328.1**	**49.3**	**83.1**	**281.8**	**441.8**	**73.7**	**511.5**	**16.4**	**36.4**
Establishments with an average of—												
1 to 4 employees	E4	30	0.1	0.5	0.1	0.1	0.4	0.9	0.1	1.0	(Z)	(Z)
5 to 9 employees	E3	34	0.2	1.6	0.2	0.4	1.3	2.4	0.3	2.7	0.1	0.1
10 to 19 employees	E2	95	1.4	8.6	1.3	2.1	7.2	12.5	3.0	15.4	0.2	0.9
20 to 49 employees	-	293	9.8	60.5	9.1	14.8	52.3	81.2	10.4	91.2	1.6	5.2
50 to 99 employees	E1	186	12.9	78.7	12.1	19.6	69.5	99.9	22.8	122.5	3.0	8.4
100 to 249 employees	-	112	17.1	102.9	15.1	26.1	86.5	149.3	23.8	170.8	(D)	16.6
250 to 499 employees	-	26	8.7	53.3	8.1	13.9	46.8	67.1	9.3	75.6	(D)	3.6
500 to 999 employees	-	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	41	0.4	2.3	0.4	0.6	1.9	3.4	0.3	3.6	0.1	0.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2331	**Women's and misses' blouses and waists:**										
	Entire industry	1 422	83.8	572.2	74.2	125.8	426.7	1 198.6	1 169.4	2 344.2	24.3
	Establishments with 75 percent specialization or more	1 237	67.6	447.5	60.5	101.7	342.5	911.8	800.6	1 692.8	19.4
23312	Women's, misses', and juniors' knit outerwear sport shirts:										
	Establishments with this product class primary	123	9.6	78.0	7.9	14.2	47.3	209.6	283.0	488.7	3.9
	Establishments with 75 percent specialization or more in class	80	4.5	34.4	3.7	6.6	21.3	96.3	114.5	208.1	1.6
23317	Women's, misses', and juniors' blouses, waists, and shirts:										
	Establishments with this product class primary	307	19.4	163.3	15.5	25.7	98.2	516.1	705.7	1 199.5	8.2
	Establishments with 75 percent specialization or more in class	246	12.8	100.9	10.5	17.1	62.9	323.4	444.0	753.7	6.2
23319	Contract work on women's, misses', and juniors' blouses, waists, and shirts:										
	Establishments with this product class primary	654	49.1	288.7	45.7	77.2	251.2	392.9	68.2	462.1	9.1
	Establishments with 75 percent specialization or more in class	577	43.2	256.3	40.3	68.0	223.6	346.4	60.6	405.0	8.0
2335	**Women's and misses' dresses:**										
	Entire industry	6 112	168.6	1 153.4	146.8	250.6	849.3	2 152.3	1 912.5	4 047.5	43.9
	Establishments with 75 percent specialization or more	5 581	152.5	1 031.1	133.5	227.3	769.8	1 924.9	1 673.2	3 583.6	39.0
23351	Women's, misses', and juniors' unit-priced dresses:										
	Establishments with this product class primary	684	40.9	367.3	30.8	54.0	208.4	911.0	1 232.0	2 126.9	14.0
	Establishments with 75 percent specialization or more in class	597	32.9	292.1	24.8	43.4	169.4	742.2	1 012.1	1 743.7	10.5
23352	Women's, misses', and juniors' dozen-priced dresses:										
	Establishments with this product class primary	110	10.2	73.7	8.8	15.1	53.7	140.3	195.2	336.0	4.3
	Establishments with 75 percent specialization or more in class	96	8.9	65.0	7.6	13.0	47.3	121.5	177.7	299.9	4.2
23359	Contract work on women's, misses', and juniors' dresses:										
	Establishments with this product class primary	1 886	77.6	452.6	72.0	120.3	390.7	627.7	114.0	741.0	13.4
	Establishments with 75 percent specialization or more in class	1 811	73.8	429.5	68.5	114.2	370.8	596.3	110.9	705.3	12.9
2337	**Women's and misses' suits and coats:**										
	Entire industry	1 677	84.9	655.3	72.8	123.6	469.5	1 432.0	1 483.5	2 917.3	22.0
	Establishments with 75 percent specialization or more	1 406	64.2	476.7	56.4	94.7	356.4	970.6	870.6	1 849.8	14.2
23371	Women's, misses', and juniors' coats and capes:										
	Establishments with this product class primary	161	8.8	85.7	6.3	10.7	46.7	250.6	363.4	620.7	2.9
	Establishments with 75 percent specialization or more in class	139	6.9	69.1	5.0	8.4	37.3	204.8	311.1	522.1	2.5
23372	Women's, misses', and juniors' suits:										
	Establishments with this product class primary	158	11.9	106.3	9.2	16.6	63.7	280.4	447.0	725.0	3.2
	Establishments with 75 percent specialization or more in class	75	5.0	42.8	4.0	7.5	25.5	102.6	180.4	283.9	1.3
23374	Women's, misses', and juniors' separate skirts and jackets:										
	Establishments with this product class primary	160	12.5	116.9	9.5	16.7	68.6	326.6	504.3	827.9	7.9
	Establishments with 75 percent specialization or more in class	87	5.2	43.3	4.3	7.2	28.8	93.0	124.6	217.3	2.5
23379	Contract work on women's, misses', and juniors' suits, coats,: and skirts:										
	Establishments with this product class primary	688	40.8	265.7	38.3	63.0	232.5	373.6	50.5	423.9	5.5
	Establishments with 75 percent specialization or more in class	620	35.3	231.0	33.3	54.4	202.6	314.7	43.1	358.2	5.2
2339	**Women's and misses' outerwear, n.e.c.:**										
	Entire industry	1 802	104.4	735.3	88.3	152.1	530.8	1 579.5	1 732.6	3 294.7	42.4
	Establishments with 75 percent specialization or more	1 557	79.3	540.0	68.4	117.8	403.8	1 105.2	1 026.7	2 115.4	31.7
23392	Women's, misses', and juniors' washable service apparel:										
	Establishments with this product class primary	54	4.7	36.8	3.8	6.5	23.4	80.1	113.9	195.4	1.8
	Establishments with 75 percent specialization or more in class	44	3.8	31.5	3.0	5.4	19.0	63.3	100.6	165.3	1.5
23394	Women's, misses', and juniors' bathing suits:										
	Establishments with this product class primary	45	5.4	48.9	3.9	6.8	26.1	111.6	88.1	205.5	1.7
	Establishments with 75 percent specialization or more in class	35	3.4	29.3	2.5	4.3	16.8	58.4	62.1	122.6	0.7
23395	Women's, misses', and juniors' slacks:										
	Establishments with this product class primary	210	21.0	168.4	16.1	28.7	102.2	547.1	993.4	1 523.7	11.2
	Establishments with 75 percent specialization or more in class	129	11.2	82.4	9.0	16.1	54.3	251.9	417.8	663.0	5.1
23397	Women's, misses', and juniors' outerwear, n.e.c.:										
	Establishments with this product class primary	105	9.4	77.6	7.2	12.7	48.3	172.6	237.2	410.7	3.8
	Establishments with 75 percent specialization or more in class	68	4.0	31.0	3.2	5.3	19.8	81.6	94.3	173.0	1.4
23399	Contract work on women's, misses', and juniors' outerwear:										
	Establishments with this product class primary	659	48.9	298.9	44.4	75.9	255.9	436.8	83.6	516.3	12.6
	Establishments with 75 percent specialization or more in class	595	42.1	258.0	38.2	65.5	220.8	380.6	52.4	428.9	11.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis—Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2331	Women's amd misses' blouses and waists.....1977..	2,344.2	1,911.3	349.7	83.2	85	[1]2,555.7	1,911.3	[1]644.4	[1]75
	1972..	1,254.9	1,022.4	202.8	29.7	83	1,390.3	1,022.4	367.9	74
	1967..	727.0	579.9	113.1	34.0	84	778.0	579.9	198.1	75
2335	Women's and misses' dresses.....1977..	4,047.5	3,768.1	206.8	73.6	93	3,993.0	3,768.1	224.9	94
	1972..	3,580.0	3,388.1	147.5	44.4	96	3,536.2	3,388.1	148.1	96
	1967..	3,086.3	2,910.9	98.6	76.8	97	3,068.0	2,910.9	157.1	95
2337	Women's and misses' suits and coats.....1977..	2,917.4	2,273.6	554.3	89.5	80	2,734.8	2,273.6	456.8	83
	1972..	1,805.3	1,454.3	278.2	72.8	84	1,822.2	1,454.3	367.9	80
	1967..	1,776.4	1,480.7	246.6	49.1	86	1,648.0	1,480.7	167.3	90
2339	Women's and misses' outerwear, n.e.c.....1977..	3,294.7	2,567.5	631.7	95.5	80	[1]3,175.3	2,567.5	[1]607.8	[1]81
	1972..	1,638.0	1,268.7	293.6	75.7	81	2,054.3	1,268.7	785.6	62
	1967..	944.3	679.4	204.0	60.9	77	1,150.0	679.4	470.6	59

n.e.c. Not elsewhere classified.

[1]In 1977, figures exclude shipments of women's knit outerwear shirts and sweaters made in knitting mills (primary products of industry 2253). For 1972 and 1967, data include shipments of women's knit outerwear sport shirts and sweaters made in knitting mills as well as shipments of products cut and sewn from purchased knitted fabrics. Because of this change, coverage ratio is not comparable with prior years.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Women's and misses' blouses and waists (SIC 2331)	Women's and misses' dresses (SIC 2335)	Women's and misses' suits and coats (SIC 2337)	Women's and misses' outerwear, n.e.c. (SIC 2339)	Other industries
	Total	(X)	2,344.2	4,047.5	2,917.4	3,294.7	(X)
	Primary products	(X)	1,911.3	3,768.1	2,278.0	2,567.5	(X)
	Secondary products	(X)	349.7	206.8	549.9	631.7	(X)
	Miscellaneous receipts	(X)	83.2	73.6	89.5	95.5	(X)
2331-	Women's and misses' blouses and waists	2,555.7	1,911.3	54.7	185.3	268.7	135.7
23312	Women's, misses', and juniors' knit outerwear sport shirts	502.1	363.7	4.4	22.5	44.8	66.3
23317	Women's, misses', and juniors' blouses, waists, and shirts	1,430.5	969.5	40.9	156.2	209.9	54.0
23319	Contract work on women's, misses', and juniors' blouses, waists, and shirts	487.7	443.0	8.7	6.6	14.0	15.4
23310	Women's and misses' blouses and waists, n.s.k	135.4	135.4	-	-	-	-
2335-	Women's and misses' dresses	3,993.0	58.6	3,768.1	101.8	48.7	15.8
23351	Women's, misses', and juniors' unit-priced dresses	2,069.8	11.7	1,948.1	81.9	21.2	6.9
23352	Women's, misses', and juniors' dozen-priced dresses	399.1	41.9	322.6	11.6	17.4	5.6
23359	Contract work on women's, misses', and juniors' dresses	764.8	(D)	738.5	8.2	(D)	3.3
23350	Women's and misses' dresses, n.s.k	759.3	(D)	754.4	-	(D)	-
2337-	Women's and misses' suits and coats	2,734.8	97.4	100.4	2,278.0	176.7	82.3
23371	Women's, misses, and juniors' coats and capes	612.1	(D)	13.2	577.8	(D)	9.0
23372	Women's, misses', and juniors' suits	671.9	27.2	74.6	518.4	28.7	23.0
23374	Women's, misses', and juniors' separate skirts and jackets	741.0	51.2	12.3	495.0	137.0	45.5
23379	Contract work on women's, misses', and juniors' suits, coats, and skirts	423.9	(D)	(D)	392.5	(D)	(D)
23370	Women's and misses' suits and coats, n.s.k	285.9	-	(D)	285.1	(D)	(D)
2339-	Women's and misses' outerwear, n.e.c	3,175.3	154.4	24.6	202.2	2,567.5	226.6
23392	Women's, misses', and juniors' washable service apparel	194.7	(D)	-	(D)	169.9	24.6
23394	Women's, misses', and juniors' bathing suits	165.4	(D)	.1	(D)	153.4	10.1
23395	Women's, misses', and juniors' slacks	1,465.4	117.5	16.9	140.2	1,059.3	131.5
23397	Women's, misses', and juniors' outerwear, n.e.c	458.1	30.9	4.8	50.8	326.4	45.3
23399	Contract work on women's, misses', and juniors' outerwear	501.1	(D)	(D)	(D)	469.7	15.1
23390	Women's and misses' outerwear, n.e.c., n.s.k	390.6	(D)	(D)	(D)	388.8	-
	Other shipments by 4-digit product group:						
2311-	Men's and boys' suits and coats	(X)	(D)	-	13.3	(D)	(X)
2321-	Men's and boys' shirts and nightwear	(X)	17.6	6.4	.8	(D)	(X)
2322-	Men's and boys' underwear	(X)	(D)	-	-	-	(X)
2327-	Men's and boys' separate trousers	(X)	(D)	(D)	3.7	1.8	(X)
2328-	Men's and boys' work clothing	(X)	(D)	(D)	1.6	34.0	(X)
2329-	Men's and boys' clothing, n.e.c	(X)	(D)	.8	5.6	24.0	(X)
2341-	Women's and children's underwear	(X)	(D)	(D)	-	(D)	(X)
2361-	Children's dresses and blouses	(X)	(D)	5.1	(D)	(D)	(X)
2363-	Children's coats and suits	(X)	(D)	-	(D)	5.5	(X)
2369-	Children's outerwear, n.e.c	(X)	(D)	(D)	(D)	48.2	(X)
2385-	Waterproof outer garments	(X)	-	-	(D)	(D)	(X)
2386-	Leather and sheep lined clothing	(X)	-	-	(D)	-	(X)
2395-	Pleating and stitching	(X)	(D)	-	-	-	(X)
2396-	Automotive and apparel trimmings	(X)	-	-	-	(D)	(X)
	Miscellaneous receipts:						
93000 00	Contract work	(X)	(D)	40.1	13.3	20.8	(X)
99980 98	Other miscellaneous receipts	(X)	(D)	.6	.1	4.5	(X)
99989 00	Resales	(X)	73.2	32.9	76.0	70.2	(X)

See footnotes at end of table.

Table 5c. **Industry-Product Analysis—Shipments by Product Class and Industry: 1977**—Con.

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Industry and miscellaneous receipts	Other industries	1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:			Other industries with over $5 million shipments of primary products--Con.	
2331-	2253 Hosiery, n.e.c.	(D)	2339-	2253 Hosiery, n.e.c.	(D)
	2321 Men's and boys' shirts and nightwear	65.9		2321 Men's and boys' shirts and nightwear	20.5
	2328 Men's and boys' work clothing	(D)		2327 Men's and boys' separate trousers	(D)
	2341 Women's and children's underwear	(D)		2328 Men's and boys' work clothing	90.6
	2361 Children's dresses and blouses	8.3		2329 Men's and boys' clothing, n.e.c.	27.5
				2341 Women's and children's underwear	5.3
2337-	2253 Knit outerwear mills	(D)		2369 Children's outerwear, n.e.c.	11.3
	2311 Men's and boys' suits and coats	17.7		2389 Apparel and accessories, n.e.c.	(D)
	2328 Men's and boys' work clothing	(D)			
	2329 Men's and boys' clothing, n.e.c.	16.6			

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	WOMEN'S AND MISSES' BLOUSES AND WAISTS						
2253- -- / 2331- --	Total		(NA)	(X)	[3]2,555.7	(X)	[3]1,390.3
23312 --	Women's, misses', and juniors' knit outerwear sport shirts:						
	As reported in census of manufactures	1,000 dozens	(NA)	(4)	(4)	[5]6,627	280.2
22532 30	Made in knitting mills		(NA)	(4)	(4)	2,387	91.1
23312 00	Made in cut-and-sew shops		201	9,662	502.1	4,240	189.1
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[5]11,669	555.6	[5]6,814	280.2
23312 43	Women's, misses', and juniors' knit outerwear sport shirts		(NA)	9,544	440.7	6,581	276.2
23312 11	All cotton and chiefly cotton		(NA)	3,626	(X)	2,473	(X)
23312 15	All manmade and chiefly manmade		(NA)	5,893	(X)	2,846	(X)
23312 19	Fabric, except all cotton and chiefly cotton and all manmade and chiefly manmade		(NA)	25	(X)	225	(X)
23312 20	Fabric, n.s.k		(NA)	(X)	(X)	1,037	(X)
23312 45	Women's sweatshirts		(NA)	223	10.1	233	4.0
23112 99	Women's, misses', and juniors' knit outerwear sport shirts and sweatshirts, n.s.k		(NA)	1,902	104.8	(X)	(X)
23317 --	Women's, misses', and juniors' blouses, waists, and shirts, except knit outerwear sport shirts:						
	As reported in census of manufactures		498	[5]25,492	1,484.5	[5]16,436	734.0
22533 17	Made in knitting mills		27	*1,203	54.0	364	20.4
23317 00	Made in cut-and-sew shops		471	24,289	1,430.5	16,072	713.6
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[5]23,507	1,473.8	[5]15,879	737.9
	By price:						
23317 11	Priced under $23 per dozen		(NA)	1,770	(X)	2,694	(X)
23317 13	Priced from $23 to $38.99 per dozen		(NA)	3,631	(X)	3,495	(X)
23317 12	Priced from $39 to $59.99 per dozen		(NA)	7,019	(X)	8,244	(X)
23317 14	Priced from $60 and over per dozen		(NA)	8,318	(X)		
23317 15	Price line, n.s.k		(NA)	2,768	(X)	1,446	(X)
	By fabric:						
23317 16	Made from all cotton and chiefly cotton		(NA)	3,599	(X)	3,483	(X)
23317 17	Made from all manmade and chiefly manmade (nylon, acrylic, polyester, rayon, etc.)		(NA)	17,133	(X)	10,050	(X)
23317 19	Made from fabrics, except all cotton and chiefly cotton and all manmade and chiefly manmade		(NA)	902	(X)	436	(X)
23317 20	Fabric, n.s.k		(NA)	1,873	(X)	1,910	(X)
	By construction:						
23317 21	Knit fabric		(NA)	9,844	(X)	5,102	(X)
23317 23	Woven fabric		(NA)	10,457	(X)	8,455	(X)
	Construction, n.s.k	1,000 dozens	(NA)	3,206	(X)	2,322	(X)
23319 --	Contract and commission work on women's, misses' and juniors' blouses and shirts		(NA)	(X)	487.7	(X)	268.5
23319 11	Receipts for contract work on blouses, waists, and shirts done for others on their materials		645	(X)	484.0	(X)	268.5
23319 02	Receipts for contract work on women's, misses' and juniors' blouses, and shirts, typically for establishments with less than 5 employees (see note)		(NA)	(X)	3.7	(X)	(X)
23310 00	Women's and misses' blouses and waists, n.s.k., typically for establishments with 19 employees or more (see note)		(NA)	(X)	100.9	(X)	93.4
23310 02	Women's and misses' blouses and waists, n.s.k., typically for establishments with less than 19 employees (see note)		(NA)	(X)	34.5	(X)	14.2
	WOMEN'S AND MISSES' DRESSES						
2335- --	Total		(NA)	(X)	3,993.0	(X)	3,536.2
23351 --	Women's, misses', and juniors' dresses sold at a unit price:						
	As reported in census of manufactures	Thousands	669	[5]**130,246	2,069.8	[5]151,772	1,827.7
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[5]129,762	1,966.2	[5]156,044	1,927.5
	By price:						
23351 11	Priced under $6 per unit		(NA)	4,739	(X)	12,441	(X)
23351 13	Priced from $6 to $9.99 per unit		(NA)	27,187	(X)	49,832	(X)
23351 15	Priced from $10 to $15.99 per unit		(NA)	33,876	(X)	40,403	(X)
23351 19	Priced $16 and over per unit		(NA)	47,235	(X)	32,395	(X)
23351 98	Price line, n.s.k		(NA)	16,725	(X)	20,973	(X)
	By fabric:						
23351 21	Made from all cotton and chiefly cotton		(NA)	13,818	(X)	18,699	(X)
23351 23	Made from all wool and chiefly wool		(NA)	3,028	(X)	8,693	(X)
23351 25	Made from all manmade and chiefly manmade (nylon, acrylic, rayon, etc.)		(NA)	92,961	(X)	97,352	(X)
23351 29	Made from fabrics, except all cotton and chiefly cotton, all wool and chiefly wool, and all manmade and chiefly manmade		(NA)	1,775	(X)	5,394	(X)
23351 99	Fabric, n.s.k	Thousands	(NA)	18,180	(X)	25,906	(X)

See footnotes at end of table.

Table 6a. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	WOMEN'S AND MISSES' DRESSES--Con.						
23351 --	Women's, misses', and junior' dresses sold at a unit price--Con.						
	As reported in Current Industrial Reports MA-23A, Apparel--Con.						
	By construction:	Thousands.....					
23351 31	Knit fabric	↕	(NA)	59,315	(X)	67,051	(X)
23351 35	Woven fabric	↕	(NA)	49,900	(X)	61,245	(X)
23351 39	Construction, n.s.k	Thousands.....	(NA)	20,547	(X)	27,748	(X)
23352 --	Women's, misses', and juniors' dresses sold at a dozen price:						
	As reported in census of manufactures	1,000 dozens..	137	[5]*5,211	399.1	[5]7,008	378.2
	As reported in Current Industrial Reports MA-23A, Apparel	↕	(NA)	[5]4,450	372.7	[5]7,392	403.8
	By price:	↕					
23352 11	Priced under $26 per dozen	↕	(NA)	36	(X)	357	(X)
23352 13	Priced from $26 to $34.99 per dozen	↕	(NA)	1,207	(X)	2,009	(X)
23352 15	Priced from $35 to $50.99 per dozen	↕	(NA)	518	(X)	1,164	(X)
23352 18	Priced from $51 to $119.99 per dozen	↕	(NA)	1,579	(X)	2,869	(X)
23352 19	Priced from $120 and over per dozen	↕	(NA)	567	(X)		
23352 98	Price line, n.s.k	↕	(NA)	543	(X)	993	(X)
	By fabric:	↕					
23352 21	Made from all cotton and chiefly cotton	↕	(NA)	892	(X)	2,112	(X)
23352 23	Made from all manmade and chiefly manmade (nylon, acrylic, rayon, etc.)	↕	(NA)	2,925	(X)	3,514	(X)
23352 29	Made from fabrics, except all cotton and chiefly cotton and all manmade and chiefly manmade	↕	(NA)	52	(X)	576	(X)
23352 99	Fabric, n.s.k	↕	(NA)	581	(X)	1,190	(X)
	By construction:	↕					
23352 31	Knit fabric	↕	(NA)	1,943	(X)	2,367	(X)
23352 33	Woven fabric	↕	(NA)	1,956	(X)	3,639	(X)
23352 34	Construction, n.s.k	1,000 dozens..	(NA)	551	(X)	1,386	(X)
23359 --	Contract and commission work on women's, misses', and junior dresses	.....	(NA)	(X)	764.8	(X)	729.7
23359 15	Receipts for contract work on women's, misses', and juniors' dresses done for others on their materials	.....	(NA)	(X)	723.0	(X)	729.7
23359 02	Receipts for contract work on women's and misses' dresses, typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	41.8	(X)	(X)
23350 00	Women's and misses' dresses, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	468.9	(X)	476.7
23350 02	Women's and misses' dresses, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	290.4	(X)	123.9
	WOMEN'S AND MISSES' SUITS AND COATS						
2337- -- 2253 pt.	Total	.....	(NA)	(X)	2,734.8	(X)	1,822.2
23371 --	Women's, misses', and juniors' coats and capes, except all fur and leather:						
	As reported in census of manufactures	Thousands.....	250	[5]19,040	612.1	[5]23,508	570.1
	As reported in Current Industrial Reports MA-23A, Apparel	↕	(NA)	[5]19,717	644.7	[5]23,734	595.5
	Coats and capes, except all fur and leather	↕	(NA)	18,083	599.3	23,734	595.5
	By price:	↕					
23371 14	Priced under $16 per unit	↕	(NA)	2,769	(X)	17,946	(X)
23371 16	Priced from $16 to $38.99 per unit	↕	(NA)	9,485	(X)		
23371 18	Priced from $39 to $75.99 per unit	↕	(NA)	4,270	(X)	3,934	(X)
23371 19	Priced from $76.00 and over per unit	↕	(NA)	763	(X)		
23371 98	Price line, n.s.k	↕	(NA)	796	(X)	1,854	(X)
	By fabric:	↕					
23371 22	Made from all wool and chiefly wool	↕	(NA)	5,987	(X)	19,380	(X)
23371 23	Made from all manmade and chiefly manmade fabrics	↕	(NA)	9,831	(X)		
23371 28	Made from all other fabrics	↕	(NA)	706	(X)		
23371 99	Fabrics, n.s.k	↕	(NA)	1,559	(X)	4,354	(X)
	By construction:	↕					
23371 24	Woven fabric	↕	(NA)	2,162	(X)	(X)	(X)
23371 25	Knit fabric	↕	(NA)	13,946	(X)	(X)	(X)
23371 26	Construction, n.s.k	↕	(NA)	1,975	(X)	(X)	(X)
23371 00	Women's, misses', and juniors' coats and capes, n.s.k	↕	(NA)	1,634	45.8	(X)	(X)
23372 -- 22533 --	Women's, misses', and juniors' suits:						
	As reported in census of manufactures	↕	(NA)	[5]36,527	768.9	[5]22,871	409.9
23372 00	Made in cut-and-sew shops	↕	199	36,315	671.9	17,207	313.2
22533 13	Made in knitting mills	Thousands.....	(D)	212	97.0	5,664	96.7

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972**—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
	WOMEN'S AND MISSES' SUITS AND COATS--Con.						
23372 00 22533 13	Women's, misses', and juniors' suits--Con.						
	As reported in Current Industrial Reports MA-23A, Apparel...		(NA)	[5]36,644	729.4	[5]27,907	450.0
	Suits, including pantsuits and uniform:						
23372 10	Suits, excluding pantsuits and uniform.....	Thousands....	(NA)	12,726	349.8	7,342	168.1
	By construction:						
23372 31	Woven fabric.....		(NA)	5,487	(X)	939	(X)
23372 35	Knit fabric.....		(NA)	4,643	(X)	5,364	(X)
23372 36	Construction, n.s.k.....		(NA)	2,596	(X)	1,039	(X)
	By price:						
23372 21	Priced under $16 per unit.....		(NA)	4,495	(X)	2,343	(X)
23372 23	Priced from $16 to $38.99 per unit.....		(NA)	3,615	(X)	2,337	(X)
23372 25	Priced from $39 and over per unit.....		(NA)	1,957	(X)	1,867	(X)
23372 98	Price line, n.s.k.....		(NA)	2,659	(X)	795	(X)
	By fabric:						
23372 26	Made from all wool and chiefly wool.....		(NA)	566	(X)	1,103	(X)
23372 28	Made from all manmade and chiefly manmade fabrics..		(NA)	8,816	(X)	4,931	(X)
23372 29	Made from all cotton and chiefly cotton.....		(NA)	289	(X)	594	(X)
23372 99	Fabric, n.s.k.....		(NA)	3,055	(X)	714	(X)
23372 41	Pantsuits, including jumpsuits.....		(NA)	23,726	354.8	20,342	276.5
	By fabric:						
23372 45	Made from all cotton and chiefly cotton.....		(NA)	1,976	(X)	1,533	(X)
23372 46	Made from all manmade and chiefly manmade fabric....		(NA)	17,502	(X)	12,382	(X)
23372 47	Made from all wool and chiefly wool.....		(NA)	596	(X)	823	(X)
23372 48	Fabric, n.s.k.....		(NA)	3,652	(X)	5,604	(X)
23372 19	Uniform suits.....	Thousands....		192	5.8	223	5.4
23372 97	Suits, including pantsuits and uniform, n.s.k.....	.....	(NA)	(X)	19.0	(X)	(X)
23374 --	Women's, misses', and juniors' skirts and jackets:						
	As reported in census of manufactures.....	1,000 dozens.	(NA)	[5]6,457	741.0	[5]6,737	443.6
	As reported in Current Industrial Reports MA-23A, Apparel...		(NA)	[5]7,163	767.6	[5]6,496	471.9
	Separate skirts, including uniforms:						
23374 10	As reported in census of manufactures.....		209	4,453	448.3	4,679	263.6
	As reported in Current Industrial Reports MA-23, Apparel		(NA)	5,260	462.0	5,227	324.2
	By price:						
23374 31	Priced under $39 per dozen.....		(NA)	386	(X)	1,160	(X)
23374 33	Priced from $39 to $75.99 per dozen.....		(NA)	1,986	(X)	2,298	(X)
23374 35	Priced from $76 and over per dozen.....		(NA)	2,245	(X)	1,273	(X)
23374 98	Price line, n.s.k.....		(NA)	643	(X)	496	-
	By fabric:						
23374 41	Made from all cotton and chiefly cotton.....		(NA)	708	(X)	1,077	(X)
23374 43	Made from all wool and chiefly wool.....		(NA)	572	(X)	690	(X)
23374 45	Made from all manmade and chiefly manmade (nylon, acrylic, rayon, etc.).....		(NA)	3,180	(X)	2,737	(X)
23374 49	Made from fabrics except all cotton and chiefly cotton, all wool and chiefly wool, and all manmade and chiefly manmade.....		(NA)	82	(X)	286	(X)
23374 99	Fabric, n.s.k.....		(NA)	718	(X)	437	(X)
	By construction:						
23374 13	Knit fabric.....		(NA)	2,181	(X)	2,088	(X)
23374 15	Woven fabric.....		(NA)	2,389	(X)	2,659	(X)
23374 16	Construction, n.s.k.....		(NA)	690	(X)	480	(X)
	Jackets, including uniforms, excluding fur and leather:						
23374 20	As reported in census of manufactures.....		139	[5]2,004	292.7	[5]1,447	143.7
	As reported in Current Industrial Reports Ma-23A, Apparel.....		(NA)	[5]1,903	305.6	[5]1,269	147.7
	Jackets:						
23374 22	Separate tailored suit type jackets.....		(NA)	1,527	238.8		
23374 24	All cotton and chiefly cotton.....		(NA)	89	(X)		
23374 26	All other fabrics.....		(NA)	1,319	(X)	1,269	(X)
23374 97	Fabric, n.s.k.....		(NA)	119	(X)		
23374 28	Nontailored outer jackets, including ski.....		(NA)	376	66.8		
23374 00	Skirts and jackets, n.s.k.....	1,000 dozens.	(NA)	(X)	(X)	[6]580	36.3
23379 --	Contract and commission work on women's, misses', and juniors' coats, suits, and skirts.....	.....	(NA)	(X)	423.9	(X)	282.7
23379 11	Receipts for contract work on women's suits, coats, and skirts, done for others on own materials.....	.....	570	(X)	419.2	(X)	282.7
23379 02	Receipts for contract work on women's suits, coats, and skirts, done for others on own materials, n.s.k., typically for establishments with less than 5 employees (see note)....	.....	(NA)	(X)	4.7	(X)	(X)
23370 00	Women's and misses' suits and coats, n.s.k., typically for establishments with 5 employees or more (see note).....	.....	(NA)	(X)	254.6	(X)	77.7
23370 02	Women's and misses' suits and coats, n.s.k., typically for establishments with less than 5 employees (see note).....	.....	(NA)	(X)	31.3	(X)	38.2

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972 — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
	WOMEN'S AND MISSES' OUTERWEAR, N.E.C.						
2253- -- 2339- --	Total		(NA)	(X)	[3]3,175.3	(X)	[3]2,054.3
23392 --	Women's, misses', and juniors' washable service apparel, including aprons, smocks, hoovers, maids', nurses', waitresses' and laboratory uniforms, hospital garments, etc.:						
23392 00	As reported in census of manufactures	1,000 dozens	64	[5]3,263	194.7	[5]2,406	105.2
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[5]3,296	202.7	[5]2,321	117.0
23392 13	Women's, misses', and juniors', nurses', maids', waitresses', and similar uniforms		(NA)	1,974	153.5	2,087	108.9
23392 15	All cotton and chiefly cotton		(NA)	46	(X)	365	(X)
23392 16	Fabrics, except all cotton and chiefly cotton		(NA)	1,752	(X)	1,722	(X)
	Fabric, n.s.k.		(NA)	176	(X)	(NA)	(X)
23392 17	Women's, misses', and juniors' washable service garments such as medical and lab jackets and smocks		(NA)	584	22.5	234	8.1
	Washable service apparel, n.s.k.		(NA)	738	26.7	(X)	(X)
23394 --	Women's, misses', and juniors' bathing suits, knit and woven:						
	As reported in census of manufactures		(NA)	(D)	(D)	[5]1,889	155.3
23394 00	Made in cut-and-sew shops		52	1,882	165.4	1,774	147.8
22533 16	Made in knitting mills		(D)	(D)	(D)	115	7.5
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[5]1,825	174.8	[5]1,670	145.3
23394 55	Swimsuits		(NA)	1,825	174.8	1,670	145.3
23394 53	Knit fabric		(NA)	1,304	(X)	1,014	(X)
23394 59	Woven fabric		(NA)	433	(X)	556	(X)
	Construction, n.s.k.		(NA)	88	(X)	100	(X)
23395 --	Women's, misses', and juniors' slacks, including jean-cut casual slacks:						
	As reported in census of manufactures		(NA)	[5]20,280	1,525.3	[5]16,079	799.9
23395 00	Made in cut-and-sew shops		331	19,522	1,465.4	14,962	740.9
22533 15	Made in knitting mills		12	758	65.2	1,117	59.0
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[5]20,119	1,440.9	[5]16,321	824.6
23395 41	Jean-cut casual slacks		(NA)	5,832	425.0	4,849	223.4
23395 45	All cotton and chiefly cotton		(NA)	2,615	(X)	2,517	(X)
23395 46	Fabric, except all cotton and chiefly cotton		(NA)	2,094	(X)	1,332	(X)
	Fabric, n.s.k.		(NA)	1,123	(X)	1,000	(X)
23395 65	Other slacks		(NA)	14,287	1,015.9	11,472	601.2
	By fabric:						
23395 67	All cotton and chiefly cotton		(NA)	2,184	(X)	2,416	(X)
23395 69	Fabric, except all cotton and chiefly cotton		(NA)	11,166	(X)	7,701	(X)
	Fabric, n.s.k.		(NA)	937	(X)	1,355	(X)
	By construction:						
23395 66	Knit fabric		(NA)	6,222	(X)	5,891	(X)
23395 68	Woven fabric		(NA)	7,286	(X)	4,278	(X)
	Construction, n.s.k.		(NA)	779	(X)	1,303	(X)
23397 --	Women's, misses', and juniors' other outerwear, n.e.c.		(NA)	(X)	458.1	13,012	590.4
	Sweaters, jackets, and jerseys:						
	As reported in census of manufactures		(NA)	(7)	(7)	[5]6,158	311.9
23397 30	Made in cut-and-sew shops		35	2,353	180.3	1,236	63.9
	Made in knitting mills		(NA)	(7)	(7)	[5]4,922	248.0
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	7,349	486.4	6,464	326.2
	Sweaters:						
22531 08	Women's, misses', and juniors' pullover sweaters		(NA)	5,505	339.1	(NA)	(X)
22531 41	All wool and chiefly wool		(NA)	271	(X)	(NA)	(X)
22531 43	All manmade and chiefly manmade fabrics		(NA)	4,559	(X)	(NA)	(X)
22531 49	All cotton and chiefly cotton		(NA)	193	(X)	(NA)	(X)
	Fiber, n.s.k.		(NA)	482	(X)	(NA)	(X)
22531 09	Women's, misses', and juniors' coat and cardigan sweaters		(NA)	1,844	147.3	(NA)	(X)
22531 51	All wool and chiefly wool		(NA)	116	(X)	(NA)	(X)
22531 53	All manmade and chiefly manmade fabrics		(NA)	1,408	(X)	(NA)	(X)
22531 59	All cotton and chiefly cotton		(NA)	82	(X)	(NA)	(X)
	Fiber, n.s.k.		(NA)	238	(X)	(NA)	(X)
	Play garments and dungarees, including shorts, pedal pushers, bermudas, and jamaicas:						
23397 60	As reported in census of manufactures		78	(S)	142.7	[5]2,622	110.1
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[5]3,080	117.6	[5]3,686	134.3
23397 15	Dungarees		(NA)	(8)	(8)	425	18.7
23397 17	All cotton and chiefly cotton		(NA)	(8)	(8)	291	(X)
23397 18	Fabric, except all cotton and chiefly cotton		(NA)	(8)	(8)	83	(X)
23397 19	Fabric, n.s.k.	1,000 dozens	(NA)	(8)	(8)	51	(X)

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
2253- -- 2339- --	WOMEN'S AND MISSES' OUTERWEAR, N.E.C.--Con.						
2339- --	Women's, misses', and juniors' other outerwear, n.e.c.--Con.						
23397 60	Play garments and dungarees, including shorts, pedal pushers, bermudas, and jamaicas--Con. As reported in Current Industrial Reports MA-23A, Apparel--Con.						
23397 25	Playshorts, pedal pushers, bermudas, and jamaicas	1,000 dozens	(NA)	2,586	90.7	2,783	91.4
23397 21	All cotton and chiefly cotton		(NA)	814	(X)	1,006	(X)
23397 29	Fabric, except all cotton and chiefly cotton		(NA)	1,532	(X)	1,525	(X)
23397 89	Fabric, n.s.k.		(NA)	240	(X)	252	(X)
23397 35	Other play garments, including playsuits, beachtops, and halters		(NA)	494	26.9	478	24.2
23397 31	All cotton and chiefly cotton		(NA)	143	(X)	196	(X)
23397 39	Fabric, except all cotton and chiefly cotton		(NA)	327	(X)	270	(X)
23397 40	Fabric, n.s.k.		(NA)	24	(X)	12	(X)
23397 70	Scarfs, dickies, and other neckwear		11	1,916	29.0	4,227	168.4
	All other outerwear		(NA)	6,971	249.9		
23397 81	Made in cut-and-sew shops		66	1,779	95.9	1,483	76.7
22533 19	Made in knitting mills		38	5,192	154.0	2,744	91.7
23397 00	Other outerwear, n.s.k.	1,000 dozens	(NA)	(X)	10.2	-	-
23399 --	Contract and commission work on women's, misses', and juniors' outerwear, n.e.c.		(NA)	(X)	501.1	(X)	304.8
23399 25	Receipts for contract work on women's, misses', and juniors' outerwear, n.e.c., done for others on their materials		(NA)	(X)	497.5	(X)	304.8
23399 02	Receipts for contract work on women's, misses', and juniors' outerwear, n.e.c., typically for establishments with less than 5 employees (see note)		(NA)	(X)	3.6	(X)	(X)
23390 00	Women's and misses' outerwear, n.e.c., n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	334.7	(X)	62.8
23390 02	Women's and misses' outerwear, n.e.c., n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	55.9	(X)	35.9

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated figure is replaced by (S).

[3]1977 figure covers only products made in cut-and-sew shops; 1972 figure also includes products made in knitting mills.

[4]Census data for children's and infants' knit outerwear shirts made in knitting mills are not available. In addition, census data include shirts made from purchased fabrics while CIR data also include shirts made from knitting mills. For comparability see the following table.

1977 product code	Product description	1977 Census of Manufactures		1977 CIR MA-23A, Apparel	
		Quantity of shipments (1,000 dozens)	Value of shipments (million dollars)	Quantity of production (1,000 dozens)	Value of shipments (million dollars)
2253 pt. 2321 pt. 2331 pt. 2361 pt.	Knit outerwear sport shirts	63,775	2,002.3	63,893	1,988.8
22532 25	Made in knitting mills	18,574	518.1		
	Made in cut-and-sew shops	45,201	1,484.2		
23212 00	Men's and boys'	27,821	809.0	63,893	1,988.8
23312 00	Women's and misses'	9,662	499.1		
23612 00	Children's and infants'	7,718	176.1		

[5]Census figure represents quantity of shipments, whereas CIR figure represents quantity of production.

[6]Quantity estimate based on unit-value relationship reported for other products in product class.

Footnotes are continued on next page.

[7]Census data for women's, misses', and junior's knit sweaters, jackets, and jerseys made in knitting mills are not available. In addition, census data include knit sweaters, jackets, and jerseys made only from purchased fabrics, while CIR data also include knit sweaters, jackets, and jerseys made from purchased fabric and those made in knitting mills. For comparability, see the following table:

1977 product code	Product description	1977 Census of Manufactures		1977 CIR MA-23, Apparel	
		Quantity of shipments (1,000 dozens)	Value of shipments (million dollars)	Quantity of production (1,000 dozens)	Value of shipments (million dollars)
2253 pt. 2329 pt. 2339 pt. 2369 pt.	Knit sweaters, jackets, and jerseys	12,017	767.3	11,952	797.4
22531 35	Made in knitting mills	9,143	555.5		
	Made in cut-and-sew shops	2,874	211.8		
23292 60	Men's and boys'	341	22.2	11,952	797.4
23397 30	Women's, and misses'	2,353	180.3		
23690 70	Children's and infants'	180	9.3		

[8]Dungarees are included with jean cut casual slacks in CIR MA-23A.

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
23312, WOMEN'S, MISSES' AND JUNIORS' KNIT OUTERWEAR SPORT SHIRTS		
United States	502.1	189.1
Middle Atlantic Division:		
New York	139.1	59.4
New Jersey	31.4	FF
Pennsylvania	60.1	15.2
South Atlantic Division:		
North Carolina	34.6	EE
South Carolina	3.6	(NA)
Georgia	19.3	5.4
Florida	16.8	5.0
East South Central Division:		
Tennessee	3.4	AA
Alabama	3.3	(NA)
West South Central Division:		
Texas	9.5	BB
Pacific Division:		
California	130.8	27.0
23317, WOMEN'S, MISSES', AND JUNIORS' BLOUSES, WAISTS, AND SHIRTS		
United States	1,430.5	713.6
New England Division:		
Massachusetts	41.4	8.1
Middle Atlantic Division:		
New York	557.4	317.1
New Jersey	62.7	17.2
Pennsylvania	151.8	78.7
East North Central Division:		
Ohio	24.0	FF
Illinois	14.6	11.2
West North Central Division:		
Missouri	6.3	1.9
South Atlantic Division:		
North Carolina	58.8	FF
South Carolina	2.8	15.0
Georgia	34.6	FF
Florida	37.2	7.2
East South Central Division:		
Tennessee	28.7	EE
Alabama	6.6	1.1
West South Central Division:		
Texas	81.5	34.2
Mountain Division:		
Colorado	2.1	(NA)
Utah	6.5	BB
Pacific Division:		
California	259.1	GG
Hawaii	2.5	(NA)
23319, CONTRACT WORK ON WOMEN'S, MISSES', AND JUNIORS' BLOUSES, WAISTS, AND SHIRTS		
United States	487.7	268.5
New England Division:		
Massachusetts	8.3	3.3
Connecticut	4.8	2.0
Middle Atlantic Division:		
New York	61.7	40.3
New Jersey	16.0	13.3
Pennsylvania	124.7	77.8
East North Central Division:		
Illinois	4.8	1.1
23319, CONTRACT WORK ON WOMEN'S, MISSES', AND JUNIORS' BLOUSES, WAISTS, AND SHIRTS--Con.		
South Atlantic Division:		
Maryland	9.1	(NA)
Virginia	34.3	FF
North Carolina	23.7	16.1
South Carolina	30.7	15.2
Georgia	11.9	9.0
Florida	10.8	6.2
East South Central Division:		
Tennessee	17.5	12.4
Alabama	16.9	6.6
Mississippi	14.0	3.4
West South Central Division:		
Texas	9.2	8.0
Mountain Division:		
Arizona	4.4	BB
Utah	12.2	BB
Pacific Division:		
California	50.2	16.6
23351, WOMEN'S, MISSES', AND JUNIORS' UNIT-PRICED DRESSES		
United States	2,069.8	1,827.7
New England Division:		
Massachusetts	68.2	111.9
Connecticut	4.7	BB
Middle Atlantic Division:		
New York	1,147.6	910.7
New Jersey	72.5	GG
Pennsylvania	134.5	GG
East North Central Division:		
Illinois	13.7	16.6
West North Central Division:		
Missouri	35.1	FF
South Atlantic Division:		
North Carolina	14.8	10.5
Georgia	5.0	14.2
Flordia	50.7	40.7
West South Central Division:		
Texas	116.2	72.8
Pacific Division:		
California	336.1	238.1
Hawaii	23.7	EE
23352, WOMEN'S, MISSES', AND JUNIORS' DOZEN-PRICED DRESSES		
United States	399.1	378.2
New England Division:		
Massachusetts	19.9	EE
Middle Atlantic Division:		
New York	106.2	140.0
New Jersey	5.5	10.0
Pennsylvania	32.6	40.4
East North Central Division:		
Illinois	103.2	48.6
South Atlantic Division:		
South Carolina	12.9	23.2
Florida	4.1	8.0
East South Central Division:		
Alabama	3.2	(NA)
Pacific Division:		
California	43.7	EE

See footnotes at end of table.

Table 6b. **Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972**—Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
23359, CONTRACT WORK ON WOMEN'S, MISSES', AND JUNIORS' DRESSES		
United States	764.8	729.7
New England Division:		
Massachusetts	34.3	37.9
Rhode Island	2.6	2.4
Connecticut	9.8	15.0
Middle Atlantic Division:		
New York	211.6	211.3
New Jersey	54.2	48.2
Pennsylvania	131.2	153.5
East North Central Division:		
Indiana	5.2	3.1
Illinois	13.1	12.7
South Atlantic Division:		
Virginia	20.4	21.5
West Virginia	7.5	7.1
North Carolina	22.7	14.6
South Carolina	23.1	33.4
Georgia	11.9	9.8
Florida	39.4	26.5
East South Central Division:		
Tennessee	15.9	EE
Alabama	7.9	11.7
West South Central Division:		
Arkansas	4.6	3.3
Oklahoma	5.5	3.7
Texas	29.1	27.3
Pacific Division:		
California	84.5	43.6
23371, WOMEN'S, MISSES', AND JUNIORS' COATS AND CAPES		
United States	612.1	570.1
New England Division:		
Connecticut	11.0	EE
Middle Atlantic Division:		
New York	333.4	355.1
New Jersey	60.1	18.0
Pennsylvania	6.9	4.6
East North Central Division:		
Illinois	17.4	FF
West North Central Division:		
Minnesota	18.8	EE
Missouri	38.8	28.2
Pacific Division:		
Washington	2.4	CC
California	61.2	50.4
23372, WOMEN'S, MISSES', AND JUNIORS' SUITS		
United States	671.9	313.2
New England Division:		
Massachusetts	15.9	12.9
Middle Atlantic Division:		
New York	208.6	130.8
New Jersey	12.4	15.5
Pennsylvania	43.4	1.6
East North Central Division:		
Illinois	6.2	7.9
West North Central Division:		
Missouri	11.3	6.2
South Atlantic Division:		
North Carolina	7.5	BB
Florida	29.2	7.0
23372, WOMEN'S, MISSES', AND JUNIORS' SUITS--Con.		
West South Central Division:		
Texas	80.4	FF
Pacific Division:		
California	100.0	52.1
23374, WOMEN'S, MISSES', AND JUNIORS' SEPARATE SKIRTS AND JACKETS		
United States	741.0	443.6
New England Division:		
Massachusetts	125.0	65.6
Connecticut	9.7	CC
Middle Atlantic Division:		
New York	219.0	165.8
New Jersey	37.0	19.6
Pennsylvania	65.8	14.0
East North Central Division:		
Ohio	8.2	EE
Illinois	4.7	(NA)
West North Central Division:		
Minnesota	3.9	(NA)
Missouri	9.4	CC
South Atlantic Division:		
North Carolina	19.8	2.2
Florida	6.0	2.3
West South Central Division:		
Texas	32.6	11.9
Pacific Division:		
Washington	9.3	(NA)
California	94.0	64.6
23379, CONTRACT WORK ON WOMEN'S, MISSES', AND JUNIORS' SUITS, COATS, AND SKIRTS		
United States	423.9	282.7
New England Division:		
Massachusetts	45.5	18.7
Connecticut	6.7	6.9
Middle Atlantic Division:		
New York	88.1	95.3
New Jersey	85.9	63.0
Pennsylvania	29.5	17.7
East North Central Division:		
Ohio	7.5	2.9
Illinois	13.4	5.2
West North Central Division:		
Missouri	3.4	2.2
South Atlantic Division:		
Maryland	8.6	BB
Virginia	5.7	(NA)
North Carolina	7.8	(NA)
South Carolina	6.8	5.8
Georgia	4.8	2.4
Florida	12.1	8.2
East South Central Division:		
Tennessee	9.1	1.4
West South Central Division:		
Arkansas	9.4	BB
Texas	11.9	CC
Pacific Division:		
Washington	6.1	AA
California	33.2	20.1

See footnotes at end of table.

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972—Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
23392, WOMEN'S, MISSES', AND JUNIORS' WASHABLE SERVICE APPAREL		
United States	194.7	105.2
Middle Atlantic Division:		
New York	53.3	28.7
East North Central Division:		
Illinois	2.9	(NA)
Michigan	2.7	AA
West North Central Division:		
Minnesota	3.7	AA
Missouri	20.0	EE
South Atlantic Division:		
Maryland	7.2	5.4
Georgia	22.1	14.1
East South Central Division:		
Tennessee	12.5	EE
Pacific Division:		
California	22.8	BB
23394, WOMEN'S, MISSES', AND JUNIORS' BATHING SUITS		
United States	165.4	(NA)
Middle Atlantic Division:		
New York	56.2	(NA)
New Jersey	8.3	(NA)
Pennsylvania	9.8	(NA)
Pacific Division:		
California	72.3	(NA)
23395, WOMEN'S, MISSES', AND JUNIORS' SLACKS		
United States	1,465.4	(NA)
New England Division:		
Massachusetts	100.0	(NA)
Middle Atlantic Division:		
New York	444.8	(NA)
New Jersey	62.7	(NA)
Pennsylvania	61.6	(NA)
East North Central Division:		
Ohio	2.5	(NA)
South Atlantic Division:		
Virginia	11.6	(NA)
North Carolina	100.7	(NA)
South Carolina	16.6	(NA)
Georgia	79.4	(NA)
Florida	24.1	(NA)
East South Central Division:		
Tennessee	33.1	(NA)
Alabama	8.7	(NA)
Mississippi	53.3	(NA)
West South Central Division:		
Texas	77.3	(NA)
Pacific Division:		
California	237.8	(NA)
23397, WOMEN'S, MISSES', AND JUNIORS' OUTERWEAR, N.E.C.		
United States	458.1	(NA)
New England Division:		
Vermont	5.0	(NA)
Massachusetts	20.1	(NA)
Middle Atlantic Division:		
New York	145.9	(NA)
New Jersey	22.3	(NA)
Pennsylvania	22.3	(NA)
East North Central Division:		
Ohio	34.4	(NA)
West North Central Division:		
Iowa	2.5	(NA)
South Atlantic Division:		
North Carolina	29.3	(NA)
Georgia	11.1	(NA)
Florida	12.5	(NA)
East South Central Division:		
Tennessee	2.1	(NA)
West South Central Division:		
Texas	20.9	(NA)
Pacific Division:		
Washington	8.6	(NA)
California	68.5	(NA)
23399, CONTRACT WORK ON WOMEN'S, MISSES', AND JUNIORS' OUTERWEAR		
United States	501.1	304.8
New England Division:		
New Hampshire	3.5	2.1
Massachusetts	11.6	8.0
Connecticut	4.2	3.0
Middle Atlantic Division:		
New York	87.8	62.9
New Jersey	28.8	18.1
Pennsylvania	55.9	43.3
East North Central Division:		
Illinois	3.0	3.3
West North Central Division:		
Missouri	6.1	4.6
South Atlantic Division:		
Maryland	3.6	2.6
Virginia	31.0	24.3
North Carolina	19.1	15.7
South Carolina	31.9	8.0
Georgia	12.5	9.3
Florida	17.6	7.0
East South Central Division:		
Tennessee	29.6	13.9
Alabama	2.4	4.1
Mississippi	14.1	7.6
West South Central Division:		
Texas	30.9	6.4
Pacific Division:		
California	73.9	28.1

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies. AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available. N.E.C. Not elsewhere classified.

Table 6c. Product Classes — Value Shipped by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2331-	Women's and misses' blouses and waists	2,555.7	1,926.4	1,766.0	1,602.2	1,664.0	1,278.8	754.6	703.7
23312	Women's, misses', and juniors' knit outerwear sport shirts	502.1	277.0	289.9	289.3	229.0	189.1	101.1	58.4
23317	Women's, misses', and juniors' blouses, waists, and shirts	1,430.5	1,217.8	1,063.4	842.4	1,007.7	713.6	426.2	446.6
23319	Contract work on women's, misses', and juniors' blouses, waists and shirts	487.7	(351.5)	334.5	351.5	356.5	268.5	152.8	153.9
23310	Women's and misses' blouses and waists, n.s.k.	135.4	(S)	(78.2)	(119.0)	70.8	107.6	74.5	44.8
2335-	Women's and misses' dresses	3,993.0	3,575.9	3,406.4	3,572.6	4,048.2	3,536.2	3,068.0	2,385.2
23351	Women's, misses', and juniors' unit-priced dresses	2,069.8	2,067.5	1,977.8	1,801.9	1,990.1	1,827.7	1,733.9	1,378.2
23352	Women's, misses', and juniors' dozen-priced dresses	399.1	367.5	357.0	343.8	482.6	378.2	384.8	349.8
23359	Contract work on women's, misses', and juniors' dresses	764.8	790.8	722.1	559.5	853.3	729.7	538.0	423.3
23350	Women's and misses' dresses, n.s.k.	759.3	350.1	349.5	867.4	722.2	600.6	411.3	233.9
2337-	Women's and misses' suits and coats	2,734.8	2,287.6	2,126.8	1,965.7	2,086.0	1,725.4	1,648.0	1,444.7
23371	Women's, misses', and juniors' coats and capes	612.1	577.9	559.2	472.6	588.2	570.1	606.6	542.9
23372	Women's, misses', and juniors' suits	671.9	541.8	521.1	434.9	405.5	313.2	189.2	211.5
23374	Women's, misses', and juniors' separate skirts and jackets	741.0	669.9	576.0	550.9	519.8	443.5	469.9	374.4
23379	Contract work on women's, misses', and juniors' suits, coats, and skirts	423.9	359.3	306.8	232.4	375.1	282.7	222.8	188.3
23370	Women's and misses' suits and coats, n.s.k.	285.9	(138.7)	(163.7)	(274.9)	197.4	115.9	159.5	127.6
2339-	Women's and misses' outerwear, n.e.c.	3,175.3	2,589.3	2,302.4	2,192.6	1,884.8	1,648.1	857.2	763.3
23392	Women's, misses', and juniors' washable service apparel	194.7	301.1	257.2	162.7	104.5	105.2	121.2	98.9
23394	Women's, misses', and juniors' bathing suits	165.4							
23395	Women's, misses', and juniors' slacks	1,465.4	1,762.0	1,567.2	1,389.1	1,315.7	1,139.4	522.1	487.9
23397	Women's, misses', and juniors' outerwear, n.e.c.	458.1							
23399	Contract work on women's, misses', and juniors' outerwear	501.1	367.1	327.3	283.1	368.2	304.8	124.6	100.7
23390	Women's and misses' outerwear, n.e.c., n.s.k.	390.6	159.1	150.7	357.7	96.4	98.7	89.3	75.3

(NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2331, WOMEN'S AND MISSES' BLOUSES AND WAISTS					
	Materials, containers, and supplies	.....	(S)	747.1	(X)	404.9
220129	Broad woven fabrics	Mil. lin. yd...	(X)	256.1	118.7	111.7
225078	Purchased knitted fabrics	Million lb.....	**72.1	217.4	101.5	176.7
970099	All other materials and components, parts, containers, and supplies	.....	(X)	79.9	(X)	37.7
971000	Materials, containers, and supplies, n.s.k.[2]	.....	(X)	193.7	(X)	78.8
	INDUSTRY 2335, WOMEN'S AND MISSES' DRESSES					
	Materials, containers, and supplies	.....	(X)	1,251.2	(X)	1,079.0
220129	Broad woven fabrics	Mil. lin. yd...	(S)	331.0	[3]635.5	289.5
225078	Purchased knitted fabrics	Million lb.....	(S)	222.3	[3]198.8	427.1
970099	All other materials and components, parts, containers, and supplies	.....	(X)	95.6	(X)	67.9
971000	Materials, containers, and supplies, n.s.k.[2]	.....	(X)	602.3	(X)	294.5
	INDUSTRY 2337, WOMEN'S AND MISSES' SUITS AND COATS					
	Materials, containers, and supplies	.....	(X)	941.8	(X)	625.5
220129	Broad woven fabrics	Mil. lin. yd...	200.6	412.7	257.5	213.6
225078	Purchased knitted fabrics	Million lb.....	(S)	182.5	74.4	195.3
970099	All other materials and components, parts, containers, and supplies	.....	(X)	93.6	(X)	64.8
971000	Materials, containers, and supplies, n.s.k.[2]	.....	(X)	253.0	(X)	151.8
	INDUSTRY 2339, WOMEN'S AND MISSES' OUTERWEAR, N.E.C.					
	Materials, containers, and supplies	.....	(X)	1,191.6	(X)	568.6
220129	Broad woven fabrics	Mil. lin. yd...	**319.2	495.2	[3]213.7	201.4
225078	Purchased knitted fabrics	Million lb.....	(S)	251.3	[3]144.6	238.4
970099	All other materials and components, parts, containers, and supplies	.....	(X)	137.9	(X)	47.1
971000	Materials, containers, and supplies, n.s.k.[2]	.....	(X)	307.2	(X)	81.7

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

(S) Withheld because estimate did not meet publication standards. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[3]10 to 30 percent of quantity was estimated.

Women's and Children's Underwear; Headwear; Children's Outerwear

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DESCRIPTION OF INDUSTRIES

WOMEN'S AND CHILDREN'S UNDERWEAR; HEADWEAR; CHILDREN'S OUTERWEAR

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2341	Women's and Children's Underwear
2342	Brassieres and Allied Garments
2351	Millinery
2352	Hats and Caps, Except Millinery
2361	Children's Dresses and Blouses
2363	Children's Coats and Suits
2369	Children's Outerwear, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2341, WOMEN'S AND CHILDREN'S UNDERWEAR

This industry comprises establishments primarily engaged in the manufacture of women's, misses', children's, and infants' underwear and nightwear, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in the manufacture of underwear and nightwear are classified in industry 2254.

The total value of shipments for establishments classified in the Women's and Children's Underwear industry amounted to $1,781 million in 1977, an increase of 34 percent from 1972. The value of shipments of products classified as primary to the industry was $1,895 million. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $915 million in 1977, was 29 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 72.9 thousand employees, a decrease of 6 percent from 1972. The leading States in employment were North Carolina, New York, Pennsylvania, and Alabama, accounting for approximately 50 percent of the industry's 1977 employment. Data for North Carolina and Alabama have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The 1977 census obtained data on shipments of women's and children's underwear only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the shipments of women's and children's underwear are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-23A, Apparel. Some of these data are also shown in table 6a.

Certain products primary to industry 2341 are also primary to Industry 2254, Knit Underwear Mills. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of total value of shipments.

INDUSTRY 2342, BRASSIERES AND ALLIED GARMENTS

This industry comprises establishments primarily engaged in the manufacture of brassieres, girdles, corsets, corset accessories, and allied garments. Establishments primarily engaged in the manufacture of surgical and orthopedic appliances are classified in industry 3842.

The total value of shipments for establishments classified in the Brassieres and Allied Garments industry amounted to $650 million in 1977, an increase of less than 1 percent from 1972. The value of shipments of products classified as primary to the industry was $547 million, a decrease of 20 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $334 million in

1977, was 2 percent below value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 18.9 thousand employees, a decrease of 33 percent from 1972. The leading States in employment were New York, Georgia, Texas, and California, accounting for approximately 55 percent of the industry's 1977 employment.

The 1977 census obtained data on shipments of brassieres and allied garments only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the shipments of brassieres and allied garments are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-23J, Brassieres, Girdles, and Allied Garments. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 3 percent of total value of shipments.

INDUSTRY 2351, MILLINERY

This industry comprises establishments primarily engaged in the manufacture of women's, misses', children's, and infants millinery. Establishments primarily engaged in the manufacture of millinery braid and trimmings are classified in industry 2396.

The total value of shipments for establishments classified in Millinery industry amounted to $75 million in 1977, an increase of 29 percent from 1972. The value of shipments of products classified as primary to the industry was $74 million, an increase of 25 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $33 million in 1977, was equal to value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 2.7 thousand employees, a decrease of 16 percent from 1972.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 40 percent of total value of shipments.

INDUSTRY 2352, HATS AND CAPS, EXCEPT MILLINERY

This industry comprises establishments primarily engaged in the manufacture of hats and caps (except millinery) and all hat bodies. Knitting mills primarily engaged in the manufacture of caps are classified in industry 2253.

The total value of shipments for establishments classified in the Hats and Caps, Except Millinery industry amounted to $285 million in 1977, an increase of 67 percent from 1972. The value of shipments of products classified as primary to the industry was $270 million, an increase of 82 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $153 million in 1977, was 53 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 12.4 thousand employees, an increase of 10 percent from 1972. The leading States in employment were Missouri, New York, Texas, and Pennsylvania, accounting for approximately 70 percent of the industry's 1977 employment. Data for Missouri, Texas, and Pennsylvania have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 9 percent of total value of shipments.

INDUSTRY 2361, CHILDREN'S DRESSES AND BLOUSES

This industry comprises establishments primarily engaged in the manufacture of girls', children's, and infants' dresses, blouses, waists, and shirts, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in the manufacture of outerwear are classified in industry 2253.

The total value of shipments for establishments classified in the Children's Dresses and Blouses industry amounted to $825 million in 1977, an increase of 26 percent from 1972. The value of shipments of products classified as primary to the industry was $839 million. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $445 million in 1977, was 32 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 35.2 thousand employees, a decrease of 1 percent from 1972. The leading States in employment were New York, Pennsylvania, South Carolina, and North Carolina, accounting for approximately 55 percent of the industry's 1977 employment. Data for South Carolina have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The 1977 census obtained data on shipments of children's dresses and blouses only at product class levels. This is the source of the data in table 6a described "As reported in census

of manufactures." Detailed figures on the shipments of children's dresses and blouses are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-23A, Apparel. Some of these data are also shown in table 6a.

Certain products primary to industry 2361 are also primary to Industry 2253, Knit Outerwear Mills. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 10 percent of total value of shipments.

INDUSTRY 2363, CHILDREN'S COATS AND SUITS

This industry comprises establishments primarily engaged in the manufacture of girls', children's, and infants' coats and suits, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in the manufacture of outerwear are classified in industry 2253.

The total value of shipments for establishments classified in the Children's Coats and Suits industry amounted to $174 million in 1977, a decrease of 8 percent from 1972. The value of shipments of products classified as primary to the industry was $192 million, a decrease of 4 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $90 million in 1977, was equal to value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 6.7 thousand employees, a decrease of 27 percent from 1972. The leading States in employment were New York, Tennessee, New Jersey, and South Carolina, accounting for approximately 65 percent of the industry's 1977 employment. Data for Tennessee and South Carolina have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The 1977 census obtained data on shipments of children's coats and suits only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the shipments of children's coats and suits are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-23A, Apparel. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 14 percent of total value of shipments.

INDUSTRY 2369, CHILDREN'S OUTERWEAR, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of girls', children's, and infants' outerwear, not elsewhere classified, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in the manufacture of outerwear are classified in industry 2253.

The total value of shipments for establishments classified in the Children's Outerwear, N.E.C. industry amounted to $719 million in 1977, an increase of 24 percent from 1972. The value of shipments of products classified as primary to the industry was $766 million. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $344 million in 1977, was 22 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 29.3 thousand employees, a decrease of 3 percent from 1972. The leading States in employment were New York, North Carolina, South Carolina, and Pennsylvania, accounting for approximately 45 percent of the industry's 1977 employment. Data for South Carolina have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The 1977 census obtained data on shipments of children's outerwear, n.e.c. only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the shipments of children's outerwear, n.e.c. are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-23A, Apparel. Some of these data are also shown in table 6a.

Certain products primary to industry 2369 are also primary to Industry 2253, Knit Outerwear Mills. Table 6a shows the value of the primary product shipments for all industries to which they are primary.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 9 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets		End-of-year inventories (million dollars)	Ratios	
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				New capital expenditures (million dollars)	Gross value of fixed assets (million dollars)		Specialization (percent)	Coverage (percent)
INDUSTRY 2341, WOMEN'S AND CHILDREN'S UNDERWEAR																
1977 Census	548	598	479	72.9	472.1	63.4	112.6	359.8	915.3	878.2	1 780.8	18.7	(NA)	275.9	95	87
1976 ASM	(NA)	(NA)	(NA)	70.4	424.1	61.1	108.9	318.5	789.2	755.1	1 522.9	15.3	194.3	257.8	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	65.8	378.7	58.3	106.2	284.6	686.5	703.6	1 404.9	18.3	181.4	225.7	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	75.6	391.9	66.3	117.3	291.4	707.6	679.6	1 378.2	13.8	177.5	231.5	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	80.1	398.6	70.8	125.1	305.7	730.3	712.2	1 434.5	17.1	181.4	238.5	(NA)	(NA)
1972 Census	509	731	485	77.5	372.0	68.7	125.0	284.1	709.0	640.5	1 331.9	19.3	171.7	217.9	94	88
1971 ASM	(NA)	(NA)	(NA)	79.8	359.4	70.8	126.2	274.0	704.0	571.4	1 272.2	15.1	137.6	197.4	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	82.5	354.6	73.5	132.5	275.0	664.8	534.8	1 199.9	8.7	134.1	193.3	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	78.1	330.1	69.8	123.7	263.0	559.1	580.4	1 144.5	12.8	148.5	189.3	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	77.5	311.3	69.7	123.3	248.4	564.7	611.5	1 161.3	10.7	171.8	191.4	(NA)	(NA)
1967 Census	778	890	567	75.5	282.3	67.2	120.0	221.3	515.9	604.0	1 116.8	11.0	166.5	169.2	94	86
1966 ASM	(NA)	(NA)	(NA)	79.5	267.3	71.2	125.0	205.9	456.7	589.1	1 042.1	10.5	(NA)	159.7	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	77.2	254.7	69.0	124.2	196.2	434.3	578.1	1 009.1	8.7	(NA)	151.4	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	75.8	247.9	67.1	122.2	190.2	447.2	581.2	1 025.9	5.6	127.4	146.2	(NA)	(NA)
1963 Census	978	1 069	628	76.7	238.9	68.4	123.4	186.3	430.8	553.0	976.1	6.4	123.3	141.7	94	85
INDUSTRY 2342, BRASSIERES AND ALLIED GARMENTS																
1977 Census	150	180	116	18.9	141.1	15.2	27.0	89.1	334.4	318.2	650.0	4.2	(NA)	121.9	92	99
1976 ASM[6]	(NA)	(NA)	(NA)	20.1	141.7	16.6	27.0	94.9	355.6	322.4	668.8	5.3	56.0	129.1	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	20.3	134.9	16.8	27.9	91.4	286.8	284.4	576.1	6.0	(S)	113.9	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	25.2	145.8	21.0	34.3	101.7	314.3	275.6	591.6	4.3	(S)	120.7	(NA)	(NA)
1973 ASM[6]	(NA)	(NA)	(NA)	28.8	166.8	23.9	44.8	117.1	356.4	310.2	667.9	6.0	(S)	128.1	(NA)	(NA)
1972 Census	220	272	193	28.0	152.8	23.2	41.9	104.4	340.0	306.9	647.0	4.6	(S)	123.1	96	90
1971 ASM	(NA)	(NA)	(NA)	31.5	163.3	26.4	46.8	114.7	333.9	313.8	641.2	4.6	59.9	117.8	(NA)	(NA)
1970 ASM[6]	(NA)	(NA)	(NA)	33.6	160.9	28.0	50.2	112.8	340.3	307.7	650.7	6.0	61.4	107.8	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	36.6	168.7	30.0	53.4	112.2	360.5	349.0	716.3	6.4	(S)	126.8	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	36.5	166.2	30.4	55.1	110.6	377.2	355.4	718.7	7.2	(S)	133.6	(NA)	(NA)
1967 Census	254	323	241	38.0	161.5	32.1	57.7	109.1	351.4	310.2	663.3	6.7	(S)	116.2	95	97
1966 ASM	(NA)	(NA)	(NA)	35.9	147.7	29.2	52.8	95.3	327.8	342.3	667.2	10.3	(NA)	126.7	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	35.9	151.9	29.4	54.8	98.9	320.6	329.1	641.9	5.8	(NA)	122.9	(NA)	(NA)
1964 ASM[6]	(NA)	(NA)	(NA)	39.0	149.7	32.9	58.3	99.7	333.2	321.2	649.1	4.7	56.7	110.3	(NA)	(NA)
1963 Census	296	351	234	37.1	139.9	31.4	56.7	95.7	310.2	291.5	593.9	3.5	52.7	99.9	96	95
INDUSTRY 2351, MILLINERY																
1977 Census	151	151	47	2.7	20.2	2.2	3.7	13.7	32.8	42.5	75.1	0.2	(NA)	5.8	99	(D)
1976 ASM[5]	(NA)	(NA)	(NA)	2.4	17.3	2.1	3.6	12.8	32.2	56.9	90.5	0.6	2.5	6.2	(NA)	(NA)
1975 ASM[5]	(NA)	(NA)	(NA)	2.7	17.5	2.5	4.3	12.8	39.0	48.9	82.0	(S)	(S)	7.6	(NA)	(NA)
1974 ASM[5]	(NA)	(NA)	(NA)	2.6	16.0	2.3	4.1	11.6	28.0	32.6	59.3	(S)	(S)	2.0	(NA)	(NA)
1973 ASM[6]	(NA)	(NA)	(NA)	3.0	15.6	2.6	4.1	12.1	32.8	26.4	59.0	0.2	(S)	3.6	(NA)	(NA)
1972 Census	215	216	52	3.2	17.0	2.7	4.4	12.9	33.2	25.0	58.1	0.3	(S)	3.8	99	96
1971 ASM	(NA)	(NA)	(NA)	2.5	14.2	2.0	3.8	10.4	28.5	24.8	53.7	0.3	(S)	3.0	(NA)	(NA)
1970 ASM[6]	(NA)	(NA)	(NA)	3.5	17.3	3.0	5.1	13.6	35.9	30.0	65.8	0.3	(S)	3.4	(NA)	(NA)
1969 ASM[6]	(NA)	(NA)	(NA)	7.4	34.6	6.5	11.2	26.9	56.4	43.7	100.6	0.1	(S)	7.0	(NA)	(NA)
1968 ASM[6]	(NA)	(NA)	(NA)	8.2	37.8	7.3	12.8	30.0	64.2	51.6	116.5	0.2	(S)	6.5	(NA)	(NA)
1967 Census	477	477	133	8.2	36.9	7.2	12.3	29.1	63.5	48.8	112.4	0.5	(S)	6.4	99	98
1966 ASM[6]	(NA)	(NA)	(NA)	9.6	37.6	8.5	14.4	29.6	61.6	54.7	115.3	0.3	(NA)	7.1	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	10.9	43.1	9.5	16.3	33.8	67.5	55.0	123.1	0.2	(NA)	6.8	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	13.1	52.4	10.8	20.2	42.1	82.6	66.4	148.6	0.3	8.0	10.7	(NA)	(NA)
1963 Census	710	(NA)	(NA)	14.2	55.6	12.2	21.7	44.3	93.2	70.3	163.2	0.7	8.0	10.1	100	100
INDUSTRY 2352, HATS AND CAPS, EXCEPT MILLINERY																
1977 Census	230	258	122	12.4	85.1	11.1	20.1	65.3	152.7	136.8	284.8	3.9	(NA)	51.7	96	94
1976 ASM[5]	(NA)	(NA)	(NA)	12.2	80.3	10.9	20.1	63.4	116.7	126.1	255.4	3.4	31.3	36.9	(NA)	(NA)
1975 ASM[5]	(NA)	(NA)	(NA)	12.7	81.8	11.5	21.4	66.4	119.1	109.2	236.3	2.2	28.7	36.7	(NA)	(NA)
1974 ASM[5]	(NA)	(NA)	(NA)	10.7	65.2	9.5	18.6	52.4	100.1	120.0	227.3	2.5	24.6	32.6	(NA)	(NA)
1973 ASM[6]	(NA)	(NA)	(NA)	12.0	59.5	10.5	19.0	45.1	114.1	82.3	194.7	1.9	29.6	29.3	(NA)	(NA)
1972 Census	253	260	122	11.3	55.6	10.0	18.4	42.8	100.2	74.7	171.0	1.9	28.1	30.1	96	99
1971 ASM	(NA)	(NA)	(NA)	12.3	54.7	10.7	20.2	40.4	93.2	73.8	168.2	2.3	35.1	30.0	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	12.5	54.7	11.0	20.6	40.4	87.0	79.6	167.9	2.1	34.1	28.8	(NA)	(NA)
1969 ASM[6]	(NA)	(NA)	(NA)	14.6	67.0	13.2	25.0	53.0	141.6	114.9	254.2	3.9	30.2	33.8	(NA)	(NA)
1968 ASM[6]	(NA)	(NA)	(NA)	15.0	63.4	13.2	24.2	48.4	101.3	94.7	194.4	1.3	30.0	32.0	(NA)	(NA)
1967 Census	340	388	157	15.5	64.8	13.7	24.8	48.6	100.7	92.6	194.5	1.8	30.7	28.3	99	99
1966 ASM	(NA)	(NA)	(NA)	12.7	53.3	11.4	21.7	39.6	72.0	75.3	148.3	1.5	(NA)	26.1	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	13.3	54.8	11.7	22.2	42.0	71.6	77.6	150.7	1.5	(NA)	28.2	(NA)	(NA)
1964 ASM[6]	(NA)	(NA)	(NA)	16.3	59.6	14.3	26.2	46.4	96.8	82.5	177.0	1.4	38.4	32.4	(NA)	(NA)
1963 Census	413	436	173	16.6	60.5	14.6	26.6	47.4	91.6	79.8	171.1	2.3	37.5	28.9	98	98

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2361, CHILDREN'S DRESSES AND BLOUSES																
1977 Census--	455	519	374	35.2	228.4	30.4	52.5	169.7	444.6	388.8	824.7	6.4	(NA)	106.5	89	87
1976 ASM----	(NA)	(NA)	(NA)	28.5	169.4	24.2	42.2	124.4	328.6	326.1	653.2	7.5	88.6	83.8	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	29.6	163.2	25.6	44.4	123.0	308.5	280.8	599.0	6.4	(S)	73.9	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	32.9	170.3	28.6	50.1	130.0	322.0	303.8	625.1	5.4	(S)	84.1	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	35.0	184.1	31.0	53.5	138.6	342.7	339.3	681.8	20.9	(S)	88.1	(NA)	(NA)
1972 Census--	439	490	353	35.4	174.4	31.0	52.9	129.8	335.8	321.4	655.2	12.9	(S)	76.3	89	86
1971 ASM----	(NA)	(NA)	(NA)	32.1	142.5	27.5	51.6	108.9	251.8	264.0	516.0	3.3	43.1	62.5	(NA)	(NA)
1970 ASM[6]---	(NA)	(NA)	(NA)	34.3	145.4	29.3	53.1	109.9	250.7	241.5	490.8	3.1	48.9	62.8	(NA)	(NA)
1969 ASM[6]---	(NA)	(NA)	(NA)	37.7	158.7	33.0	57.6	120.5	277.1	295.8	573.2	4.3	(S)	63.4	(NA)	(NA)
1968 ASM[6]---	(NA)	(NA)	(NA)	35.0	143.7	30.5	53.9	108.3	265.5	273.7	529.1	6.2	(S)	65.3	(NA)	(NA)
1967 Census--	575	623	428	35.3	134.6	31.2	54.6	103.2	242.4	252.4	496.0	3.4	(NA)	47.2	82	82
1966 ASM[6]---	(NA)	(NA)	(NA)	34.9	125.7	31.3	58.2	97.4	238.3	255.4	492.7	3.5	(NA)	48.7	(NA)	(NA)
1965 ASM[6]---	(NA)	(NA)	(NA)	38.0	131.4	34.1	60.9	103.0	239.2	270.1	505.5	3.6	(NA)	50.6	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	36.9	121.6	32.9	58.6	95.5	207.0	232.0	440.8	2.2	32.2	43.8	(NA)	(NA)
1963 Census--	627	667	412	35.8	115.1	31.9	55.9	90.0	205.6	239.8	443.3	3.0	31.2	44.1	91	82
INDUSTRY 2363, CHILDREN'S COATS AND SUITS																
1977 Census--	108	120	70	6.7	45.8	5.7	9.7	35.1	90.2	86.2	173.8	1.3	(NA)	20.7	87	78
1976 ASM----	(NA)	(NA)	(NA)	7.3	47.5	6.6	10.8	37.5	87.6	85.8	174.6	1.5	11.3	15.4	(NA)	(NA)
1975 ASM[6]---	(NA)	(NA)	(NA)	7.4	45.7	6.6	10.9	36.1	82.0	84.5	168.1	0.6	9.4	17.5	(NA)	(NA)
1974 ASM[6]---	(NA)	(NA)	(NA)	8.8	50.8	8.0	13.4	39.6	97.3	101.7	204.2	0.4	10.7	22.8	(NA)	(NA)
1973 ASM[6]---	(NA)	(NA)	(NA)	7.5	42.6	6.9	11.5	31.7	85.2	87.7	171.6	0.7	8.6	18.5	(NA)	(NA)
1972 Census--	155	165	105	9.2	48.5	8.1	14.5	36.3	90.4	99.8	188.5	0.8	9.8	19.2	91	85
1971 ASM----	(NA)	(NA)	(NA)	10.4	48.3	9.2	17.4	38.6	86.3	91.2	178.6	2.8	14.6	19.0	(NA)	(NA)
1970 ASM[6]---	(NA)	(NA)	(NA)	9.5	41.9	8.3	15.4	33.0	73.5	90.3	163.5	0.8	12.0	21.0	(NA)	(NA)
1969 ASM[6]---	(NA)	(NA)	(NA)	9.5	45.2	8.2	15.6	32.9	87.9	112.2	203.1	1.2	18.1	19.0	(NA)	(NA)
1968 ASM[6]---	(NA)	(NA)	(NA)	10.7	47.8	9.3	17.6	35.7	87.5	114.0	197.0	0.3	18.3	20.6	(NA)	(NA)
1967 Census--	216	231	135	10.9	45.9	9.6	17.7	34.3	78.2	96.0	175.3	1.4	18.5	15.8	93	84
1966 ASM[6]---	(NA)	(NA)	(NA)	12.2	45.3	10.4	17.9	33.4	77.6	109.1	185.4	2.7	(NA)	19.1	(NA)	(NA)
1965 ASM[6]---	(NA)	(NA)	(NA)	11.4	43.7	10.1	18.0	33.0	75.1	95.5	169.5	1.3	(NA)	15.4	(NA)	(NA)
1964 ASM[6]---	(NA)	(NA)	(NA)	11.9	48.8	10.5	19.6	36.0	81.4	95.0	176.3	3.7	14.4	16.6	(NA)	(NA)
1963 Census--	269	285	152	11.8	43.0	10.4	18.6	32.9	72.7	88.9	162.9	1.1	12.0	16.4	92	86
INDUSTRY 2369, CHILDREN'S OUTERWEAR, N.E.C.																
1977 Census--	307	363	242	29.3	184.9	25.1	45.4	144.1	344.4	364.2	718.8	6.7	(NA)	118.5	84	77
1976 ASM[5]---	(NA)	(NA)	(NA)	27.8	168.7	24.3	44.4	128.1	358.0	336.9	686.5	4.5	55.0	109.3	(NA)	(NA)
1975 ASM[5]---	(NA)	(NA)	(NA)	27.3	155.3	23.7	42.1	117.7	317.7	312.6	642.4	6.4	55.1	95.3	(NA)	(NA)
1974 ASM[6]---	(NA)	(NA)	(NA)	28.8	151.1	24.9	44.2	113.8	349.4	307.1	644.6	7.7	52.7	109.5	(NA)	(NA)
1973 ASM[6]---	(NA)	(NA)	(NA)	31.1	153.3	27.0	48.7	116.3	304.2	306.7	598.3	7.0	53.4	95.2	(NA)	(NA)
1972 Census--	370	406	265	30.1	144.6	26.8	49.4	112.0	282.9	296.4	578.2	6.1	53.5	79.6	85	70
1971 ASM----	(NA)	(NA)	(NA)	29.1	130.5	26.0	47.5	104.2	261.3	245.0	500.3	5.5	53.1	78.2	(NA)	(NA)
1970 ASM[6]---	(NA)	(NA)	(NA)	30.1	130.3	27.0	49.5	104.5	254.9	226.9	477.8	4.0	51.8	77.2	(NA)	(NA)
1969 ASM[6]---	(NA)	(NA)	(NA)	29.3	115.5	25.8	47.2	89.7	222.3	294.9	515.0	4.5	52.0	74.4	(NA)	(NA)
1968 ASM[6]---	(NA)	(NA)	(NA)	31.5	125.7	27.9	52.2	99.0	232.6	282.0	512.4	3.7	(S)	81.7	(NA)	(NA)
1967 Census--	456	480	286	32.0	117.7	28.8	53.6	95.3	217.3	243.1	456.2	4.3	(S)	68.5	80	68
1966 ASM[6]---	(NA)	(NA)	(NA)	38.1	127.0	34.6	63.7	106.1	204.1	231.2	438.1	4.6	(NA)	59.8	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	35.1	115.4	31.9	60.8	95.7	192.6	228.9	421.3	2.6	(NA)	64.7	(NA)	(NA)
1964 ASM[6]---	(NA)	(NA)	(NA)	35.7	114.2	31.8	59.7	91.5	197.9	241.9	436.8	1.7	39.3	67.2	(NA)	(NA)
1963 Census--	602	624	360	34.2	107.0	30.4	56.1	84.4	188.3	233.3	419.6	2.8	38.8	64.8	81	69

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2341, WOMEN'S AND CHILDREN'S UNDERWEAR											
1977 Census--	6 476	(NA)	86	1 777	3.19	49	75	(NA)	12 558	51	8.12
1976 ASM----	6 024	2 759	86	1 782	2.92	49	77	12	11 210	53	7.24
1975 ASM----	5 669	2 715	87	1 821	2.67	50	77	12	10 276	55	6.46
1974 ASM----	5 183	2 347	87	1 769	2.48	49	77	12	9 359	55	6.03
1973 ASM----	4 976	2 264	88	1 766	2.44	49	77	12	9 117	54	5.83
1972 Census--	4 800	2 215	88	1 819	2.27	48	76	12	9 148	52	5.67
1971 ASM----	4 503	1 724	88	1 782	2.17	44	73	10	8 822	51	5.57
1970 ASM----	4 298	1 625	89	1 802	2.07	44	74	11	8 058	53	5.01
1969 ASM----	4 226	1 901	89	1 772	2.12	50	79	12	7 158	59	4.51
1968 ASM----	4 016	2 216	89	1 769	2.01	52	79	14	7 286	55	4.57
1967 Census--	3 739	2 205	89	1 785	1.84	54	79	14	6 833	54	4.29
1966 ASM----	3 362	(NA)	89	1 755	1.64	56	82	(NA)	5 744	58	3.65
1965 ASM----	3 299	(NA)	89	1 800	1.57	57	82	(NA)	5 625	58	3.49
1964 ASM----	3 270	1 680	88	1 821	1.55	57	81	12	5 899	55	3.65
1963 Census--	3 114	1 607	89	1 804	1.50	56	81	12	5 616	55	3.49
INDUSTRY 2342, BRASSIERES AND ALLIED GARMENTS											
1977 Census--	7 475	(NA)	80	1 774	3.30	48	70	(NA)	17 713	42	12.39
1976 ASM----	7 049	2 786	82	1 626	3.51	48	69	8	17 691	39	13.17
1975 ASM----	6 645	(S)	82	1 660	3.27	49	72	(S)	14 128	47	10.27
1974 ASM----	5 785	(S)	83	1 633	2.96	46	71	(S)	12 472	46	9.16
1973 ASM----	5 791	(S)	82	1 874	2.61	46	71	(S)	12 375	46	7.95
1972 Census--	5 457	(S)	82	1 806	2.49	47	71	(S)	12 142	44	8.11
1971 ASM----	5 184	1 901	83	1 772	2.45	48	74	9	10 600	48	7.13
1970 ASM----	4 788	1 827	83	1 792	2.24	47	72	9	10 127	47	6.77
1969 ASM----	4 609	(S)	81	1 780	2.10	48	72	(S)	9 849	46	6.75
1968 ASM----	4 553	(S)	83	1 812	2.00	49	72	(S)	10 334	44	6.84
1967 Census--	4 250	(S)	84	1 797	1.89	46	71	(S)	9 247	45	6.09
1966 ASM----	4 114	(NA)	81	1 808	1.80	51	73	(NA)	9 130	45	6.20
1965 ASM----	4 231	(NA)	81	1 863	1.80	51	74	(NA)	8 930	47	5.85
1964 ASM----	3 838	1 453	84	1 772	1.71	49	72	8	8 543	44	5.71
1963 Census--	3 770	1 420	84	1 805	1.68	49	72	8	8 361	45	5.47
INDUSTRY 2351, MILLINERY											
1977 Census--	7 592	(NA)	81	1 709	3.72	56	83	(NA)	12 345	61	8.89
1976 ASM----	7 208	1 041	87	1 714	3.55	62	81	2	13 416	53	8.94
1975 ASM----	6 481	(S)	92	1 720	2.97	59	80	(S)	14 444	44	9.06
1974 ASM----	6 153	(S)	88	1 782	2.82	54	81	(S)	10 769	57	6.82
1973 ASM----	5 200	(S)	86	1 576	2.95	44	71	(S)	10 933	47	8.00
1972 Census--	5 312	(S)	84	1 629	2.93	43	72	(S)	10 375	51	7.54
1971 ASM----	5 680	(S)	80	1 900	2.73	46	72	(S)	11 400	49	7.50
1970 ASM----	4 942	(S)	85	1 700	2.66	45	71	(S)	10 257	48	7.03
1969 ASM----	4 675	(S)	87	1 723	2.40	43	77	(S)	7 621	61	5.03
1968 ASM----	4 609	(S)	89	1 753	2.34	44	76	(S)	7 829	58	5.01
1967 Census--	4 500	(S)	87	1 708	2.36	43	76	(S)	7 743	58	5.16
1966 ASM----	3 916	(NA)	88	1 694	2.05	47	80	(NA)	6 416	61	4.27
1965 ASM----	3 954	(NA)	87	1 715	2.07	44	79	(NA)	6 192	63	4.14
1964 ASM----	4 000	610	82	1 870	2.08	44	79	5	6 305	63	4.08
1963 Census--	3 915	563	85	1 778	2.04	43	77	4	6 563	59	4.29
INDUSTRY 2352, HATS AND CAPS, EXCEPT MILLINERY											
1977 Census--	6 861	(NA)	89	1 804	3.25	48	77	(NA)	12 317	55	7.60
1976 ASM----	6 581	2 565	89	1 844	3.15	49	80	12	9 565	68	5.80
1975 ASM----	6 440	2 259	90	1 860	3.10	46	80	12	9 377	68	5.56
1974 ASM----	8 083	2 299	88	1 957	2.81	52	81	10	9 355	65	5.38
1973 ASM----	4 958	2 466	87	1 809	2.37	42	72	15	9 508	52	6.00
1972 Census--	4 920	2 486	88	1 840	2.32	43	76	16	8 867	55	5.44
1971 ASM----	4 447	2 853	86	1 887	2.00	43	76	20	7 577	58	4.61
1970 ASM----	4 376	2 728	88	1 872	1.96	47	79	20	6 960	62	4.22
1969 ASM----	4 589	2 068	90	1 893	2.12	45	71	11	9 698	47	5.66
1968 ASM----	4 226	2 000	88	1 833	2.00	48	81	15	6 753	62	4.18
1967 Census--	4 180	1 980	88	1 810	1.95	47	80	15	6 496	64	4.06
1966 ASM----	4 196	(NA)	89	1 903	1.82	50	86	(NA)	5 669	74	3.31
1965 ASM----	4 120	(NA)	87	1 897	1.89	51	87	(NA)	5 383	76	3.22
1964 ASM----	3 656	2 355	87	1 832	1.77	46	80	21	5 938	61	3.69
1963 Census--	3 644	2 259	87	1 821	1.78	46	81	21	5 518	66	3.44

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2361, CHILDREN'S DRESSES AND BLOUSES										
1977 Census--	6 481	(NA)	86	1 723	3.23	47	74	(NA)	12 615	51	8.47
1976 ASM----	5 943	3 108	84	1 743	2.94	49	75	13	11 529	51	7.78
1975 ASM----	5 513	(S)	86	1 734	2.77	46	74	(S)	10 422	52	6.94
1974 ASM----	5 176	(S)	86	1 751	2.59	48	75	(S)	9 787	52	6.42
1973 ASM----	5 260	(S)	88	1 725	2.59	49	76	(S)	9 791	53	6.40
1972 Census--	4 926	(S)	87	1 706	2.45	49	75	(S)	9 485	51	6.34
1971 ASM----	4 439	1 342	85	1 876	2.11	51	78	8	7 844	56	4.87
1970 ASM----	4 239	1 425	85	1 812	2.06	49	78	9	7 309	57	4.72
1969 ASM----	4 209	(S)	87	1 745	2.09	51	79	(S)	7 350	57	4.81
1968 ASM----	4 105	(S)	87	1 767	2.00	51	78	(S)	7 585	54	4.92
1967 Census--	3 813	(NA)	88	1 750	1.89	50	78	(NA)	6 866	55	4.43
1966 ASM----	3 601	(NA)	89	1 859	1.67	51	77	(NA)	6 828	52	4.09
1965 ASM----	3 457	(NA)	89	1 785	1.69	53	79	(NA)	6 294	54	3.92
1964 ASM----	3 295	872	89	1 781	1.63	52	80	7	5 609	58	3.52
1963 Census--	3 215	871	89	1 752	1.61	54	80	7	5 743	55	3.67
	INDUSTRY 2363, CHILDREN'S COATS AND SUITS										
1977 Census--	6 826	(NA)	84	1 715	3.60	49	75	(NA)	13 449	50	9.25
1976 ASM----	6 506	1 547	90	1 636	3.47	49	76	6	12 000	54	8.11
1975 ASM----	6 175	1 270	89	1 651	3.31	50	77	5	11 081	55	7.52
1974 ASM----	5 772	1 215	90	1 675	2.95	49	74	5	11 056	52	7.26
1973 ASM----	5 680	1 146	92	1 666	2.75	51	75	5	11 360	50	7.40
1972 Census--	5 271	1 065	88	1 790	2.50	52	78	5	9 826	53	6.23
1971 ASM----	4 644	1 403	88	1 891	2.21	51	78	8	8 298	55	4.95
1970 ASM----	4 410	1 263	87	1 855	2.14	55	80	7	7 736	57	4.77
1969 ASM----	4 757	1 905	86	1 902	2.10	55	77	8	9 252	51	5.63
1968 ASM----	4 467	1 710	86	1 892	2.02	57	82	9	8 177	54	4.97
1967 Census--	4 211	1 697	88	1 843	1.93	54	80	10	7 174	58	4.41
1966 ASM----	3 713	(NA)	85	1 721	1.86	58	83	(NA)	6 360	58	4.33
1965 ASM----	3 833	(NA)	88	1 782	1.83	56	82	(NA)	6 587	58	4.17
1964 ASM----	4 100	1 210	88	1 866	1.83	53	81	8	6 840	59	4.15
1963 Census--	3 644	1 016	88	1 788	1.76	54	80	7	6 161	59	3.90
	INDUSTRY 2369, CHILDREN'S OUTERWEAR, N.E.C.										
1977 Census--	6 315	(NA)	85	1 811	3.17	50	76	(NA)	11 765	53	7.58
1976 ASM----	6 068	1 978	87	1 827	2.88	49	73	8	12 877	47	8.06
1975 ASM----	5 688	2 018	86	1 776	2.79	48	72	8	11 637	48	7.54
1974 ASM----	5 246	1 829	86	1 775	2.57	47	71	8	12 131	43	7.90
1973 ASM----	4 929	1 717	86	1 803	2.38	51	76	8	9 781	50	6.24
1972 Census--	4 803	1 777	89	1 843	2.26	51	76	9	9 398	51	5.72
1971 ASM----	4 484	1 824	89	1 826	2.19	48	75	10	8 979	49	5.50
1970 ASM----	4 328	1 720	89	1 833	2.11	47	74	10	8 468	51	5.14
1969 ASM----	3 941	1 774	88	1 829	1.90	55	77	10	7 587	51	4.70
1968 ASM----	3 990	(S)	88	1 870	1.89	55	79	(S)	7 384	54	4.45
1967 Census--	3 678	(S)	90	1 861	1.77	53	79	(S)	6 790	54	4.05
1966 ASM----	3 333	(NA)	90	1 841	1.66	52	81	(NA)	5 356	62	3.20
1965 ASM----	3 287	(NA)	90	1 905	1.57	54	81	(NA)	5 487	59	3.16
1964 ASM----	3 198	1 100	89	1 877	1.53	55	81	8	5 543	57	3.31
1963 Census--	3 128	1 134	88	1 845	1.50	55	81	9	5 505	56	3.35

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2341, WOMEN'S AND CHILDREN'S UNDERWEAR													
United States	-	**698**	**479**	**72.9**	**472.1**	**63.4**	**112.6**	**359.8**	**915.3**	**878.2**	**1 780.8**	**18.7**	**77.5**	**709.0**
New England Division:													
New Hampshire	E0	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Vermont	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Massachusetts	-	22	15	1.9	12.8	1.7	3.1	9.4	19.7	16.4	36.1	(D)	EE	(D)
Connecticut	E1	10	8	0.4	2.4	0.3	0.5	1.4	4.5	10.1	14.2	(D)	0.9	6.6
Middle Atlantic Division:														
New York	E1	266	132	8.8	70.1	7.0	12.4	41.5	161.7	257.7	416.6	1.7	9.8	147.8
New Jersey	-	37	21	2.0	12.7	1.8	3.1	9.8	30.8	21.4	53.2	(D)	2.3	23.9
Pennsylvania	E1	83	69	8.2	51.7	7.0	11.9	39.7	90.2	71.0	158.4	2.0	10.4	83.4
East North Central Division:														
Indiana	-	4	4	0.2	1.5	0.2	0.4	1.1	3.0	1.8	4.8	(D)	BB	(D)
Illinois	-	8	3	1.0	7.6	0.8	1.5	5.9	30.2	12.6	42.4	(D)	EE	(D)
Michigan	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Wisconsin	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Division:														
Minnesota	E2	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Iowa	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	6.9
Missouri	-	9	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	24.2
South Atlantic Division:														
Virginia	-	12	11	2.3	13.9	2.1	3.6	11.6	22.6	7.5	29.7	(D)	2.4	14.3
West Virginia	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
North Carolina	-	59	53	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
South Carolina	-	11	11	2.5	15.7	1.9	3.7	10.9	39.7	40.1	79.2	(D)	2.1	23.8
Georgia	-	25	25	6.5	35.5	5.7	9.8	30.8	58.1	48.7	106.8	2.6	6.5	46.3
Florida	E2	14	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	10.2
East South Central Division:														
Tennessee	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Alabama	-	16	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Mississippi	-	14	14	3.7	21.8	3.4	6.8	19.7	34.5	33.4	68.9	(D)	FF	(D)
West South Central Division:														
Arkansas	-	5	5	0.7	4.0	0.6	1.1	3.6	7.7	4.7	12.4	(D)	BB	(D)
Louisiana	E3	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Oklahoma	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Texas	-	13	10	3.0	19.2	2.6	4.9	15.3	27.6	27.0	54.7	1.3	EE	(D)
Mountain Division:														
Arizona	-	6	5	1.1	7.1	1.0	1.8	6.0	12.8	9.8	22.1	(D)	CC	(D)
Utah	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
California	-	40	20	2.3	16.9	2.0	3.8	12.5	32.8	22.5	55.1	0.5	1.9	19.5
Industry 2341-11, Manufacturers														
United States	(NA)	**346**	**209**	**33.5**	**218.7**	**28.8**	**51.8**	**168.2**	**441.5**	**404.3**	**845.1**	**6.7**	**45.9**	**453.7**
New England Division:														
New Hampshire	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts	-	9	6	0.8	5.9	0.7	1.3	3.7	10.4	13.5	23.8	0.2	0.8	8.3
Middle Atlantic Division:														
New York	E2	137	58	4.3	29.5	3.6	6.4	21.1	67.3	52.0	119.7	0.7	5.2	60.6
New Jersey	E1	21	8	1.2	7.8	1.1	1.8	5.9	13.3	13.7	28.4	0.2	1.2	17.0
Pennsylvania	E1	33	24	3.7	23.0	2.8	4.8	15.4	40.8	47.4	87.2	0.9	4.6	40.3
East North Central Division:														
Indiana	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Illinois	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Michigan	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Wisconsin	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Division:														
Missouri	-	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	24.2
South Atlantic Division:														
Virginia	-	4	3	0.5	3.6	0.4	0.7	2.6	10.4	6.1	16.2	(D)	1.0	7.3
North Carolina	-	32	28	5.4	34.9	4.9	8.8	27.9	69.0	67.8	136.0	0.8	8.0	12.5
South Carolina	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Georgia	-	12	12	3.3	18.0	3.0	5.1	15.2	32.6	39.8	73.0	(D)	3.9	33.5
Florida	-	6	3	0.2	1.5	0.2	0.4	1.2	2.9	2.9	5.8	0.1	EE	(D)
East South Central Division:														
Tennessee	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Mississippi	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West South Central Division:														
Arkansas	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Oklahoma	-	4	4	0.7	5.4	0.6	1.1	3.7	9.3	9.7	19.1	0.1	CC	(D)
Texas	-	9	7	2.9	18.4	2.5	4.7	14.6	26.5	26.0	52.5	1.2	CC	(D)
Mountain Division:														
Arizona	-	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
California	-	25	15	1.9	14.0	1.7	3.2	10.6	26.7	17.6	44.1	0.4	EE	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977												1972	
		All establishments		All employees		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2341-22, Jobbers														
United States	(NA)	90	46	6.2	54.3	4.2	7.0	24.7	186.3	409.1	580.4	3.3	2.7	88.7
Middle Atlantic Division:														
New York	–	59	25	1.7	23.3	0.8	1.4	6.0	71.6	192.5	261.1	0.5	1.6	69.5
Pennsylvania	E1	4	2	0.6	4.2	0.5	0.9	3.4	12.3	20.3	31.3	(D)	BB	(D)
East North Central Division:														
Michigan	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Division:														
Minnesota	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
North Carolina	–	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Carolina	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Division:														
Alabama	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mississippi	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Industry 2341-33, Contractors														
United States	(NA)	262	224	33.3	199.0	30.3	53.8	166.8	287.6	64.7	347.3	8.7	28.9	22.0
New England Division:														
New Hampshire	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Vermont	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Massachusetts	–	9	9	1.1	6.7	1.0	1.9	5.7	7.9	1.0	8.9	0.1	1.4	8.0
Connecticut	E1	5	5	0.3	1.5	0.3	0.4	1.2	2.0	0.5	2.4	(D)	BB	(D)
Middle Atlantic Division:														
New York	E1	70	49	2.9	17.2	2.6	4.6	14.4	22.8	13.2	35.8	0.5	3.0	17.6
New Jersey	–	15	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Pennsylvania	–	46	43	3.9	24.4	3.6	6.3	20.9	37.1	3.3	39.8	1.1	FF	(D)
East North Central Division:														
Michigan	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West North Central Division:														
Iowa	–	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Atlantic Division:														
Virginia	–	8	8	1.8	10.3	1.7	2.8	9.0	12.2	1.4	13.5	0.7	1.4	5.0
West Virginia	–	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
North Carolina	–	20	20	4.0	25.2	3.6	6.6	19.5	31.1	7.2	37.6	1.0	FF	(D)
South Carolina	–	5	5	0.8	4.7	0.8	1.4	3.9	10.4	6.1	16.3	(D)	CC	(D)
Georgia	E1	11	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	12.8
Florida	–	8	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
East South Central Division:														
Tennessee	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Alabama	–	14	14	7.0	44.8	6.3	11.3	36.4	67.1	10.8	75.5	(D)	EE	(D)
Mississippi	–	8	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West South Central Division:														
Arkansas	–	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Oklahoma	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mountain Division:														
Utah	–	4	4	1.0	6.1	0.9	1.4	5.1	8.5	2.1	10.8	(D)	BB	(D)
Pacific Division:														
California	E3	12	3	0.4	2.3	0.3	0.6	1.8	3.2	0.7	3.9	0.1	CC	(D)
INDUSTRY 2342, BRASSIERES AND ALLIED GARMENTS														
United States	–	180	116	18.9	141.1	15.2	27.0	89.1	334.4	318.2	650.0	4.2	28.0	340.0
New England Division:														
Massachusetts	E1	7	3	0.5	3.3	0.4	0.7	2.3	6.3	6.7	13.1	(D)	0.5	4.8
Connecticut	E1	11	8	0.7	5.6	0.5	0.9	3.3	9.5	6.2	15.5	0.2	0.8	7.8
Middle Atlantic Division:														
New York	–	66	34	3.8	31.0	2.8	4.8	15.0	68.2	92.8	161.1	0.9	7.2	99.7
New Jersey	–	14	6	1.4	13.7	0.9	1.5	5.2	25.5	63.3	87.2	(D)	2.3	34.7
Pennsylvania	–	16	13	1.4	9.6	1.3	2.2	7.8	17.7	11.6	29.5	0.1	1.9	13.1
East North Central Division:														
Indiana	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Illinois	–	6	4	0.3	2.3	0.3	0.5	1.1	2.9	2.3	5.3	(Z)	BB	(D)
West North Central Division:														
Missouri	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nebraska	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
West Virginia	–	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
North Carolina	–	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	–	8	7	2.5	20.1	1.9	3.6	13.8	66.3	55.0	120.7	(D)	4.4	57.4
Florida	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.5

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2342, BRASSIERES AND ALLIED GARMENTS—Con.														
East South Central Division:														
Kentucky	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Tennessee	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Alabama	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West South Central Division:														
Texas	-	8	7	2.0	11.5	1.8	3.3	9.7	33.8	19.1	51.5	(D)	EE	(D)
Pacific Division:														
California	-	14	10	1.9	17.5	1.4	2.6	9.0	39.8	20.6	60.4	(D)	2.4	25.6
INDUSTRY 2351, MILLINERY														
United States	**E4**	**151**	**47**	**2.7**	**20.2**	**2.2**	**3.7**	**13.7**	**32.8**	**42.5**	**75.1**	**0.2**	**3.2**	**33.2**
Middle Atlantic Division:														
New York	E3	95	26	1.4	11.2	1.1	1.9	7.2	19.9	26.3	46.0	0.1	EE	(D)
New Jersey	E2	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.7
INDUSTRY 2352, HATS AND CAPS, EXCEPT MILLINERY														
United States	**-**	**258**	**122**	**12.4**	**85.1**	**11.1**	**20.1**	**65.3**	**152.7**	**136.8**	**284.8**	**3.9**	**11.3**	**100.2**
New England Division:														
Massachusetts	E1	11	4	0.5	2.9	0.4	0.8	2.4	3.9	5.3	9.1	(D)	BB	(D)
Middle Atlantic Division:														
New York	E3	86	28	1.9	13.2	1.7	2.9	10.2	22.2	20.5	42.6	0.6	EE	(D)
New Jersey	-	12	6	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	2.2
Pennsylvania	-	20	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	8.7
East North Central Division:														
Illinois	-	12	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Wisconsin	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West North Central Division:														
Minnesota	E3	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Iowa	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Missouri	-	34	28	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
South Atlantic Division:														
Virginia	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Florida	E3	5	4	0.2	1.2	0.1	0.3	0.8	2.1	1.5	3.5	(Z)	BB	(D)
East South Central Division:														
Kentucky	-	4	4	0.4	2.5	0.3	0.6	2.0	10.3	8.9	19.1	(D)	BB	(D)
West South Central Division:														
Texas	-	15	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Pacific Division:														
California	E2	17	5	0.4	3.1	0.4	0.7	2.2	5.7	4.4	10.1	0.1	BB	(D)
INDUSTRY 2361, CHILDREN'S DRESSES AND BLOUSES														
United States	**E1**	**519**	**374**	**35.2**	**228.4**	**30.4**	**52.5**	**169.7**	**444.6**	**388.8**	**824.7**	**6.4**	**35.4**	**335.8**
New England Division:														
Maine	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Massachusetts	E1	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Rhode Island	E1	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Middle Atlantic Division:														
New York	E1	154	91	5.6	44.0	4.5	8.3	29.2	103.4	141.5	241.9	1.1	6.7	97.5
New Jersey	E1	56	41	2.3	16.9	2.1	3.4	12.6	32.8	39.8	71.8	(D)	2.8	31.0
Pennsylvania	-	79	65	5.6	34.1	5.0	8.2	27.6	61.8	40.8	101.7	0.4	6.4	40.4
East North Central Division:														
Ohio	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Michigan	E3	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Wisconsin	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
Maryland	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Virginia	E1	24	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
North Carolina	-	35	34	3.3	20.1	2.9	5.0	15.9	37.5	23.8	61.2	(D)	FF	(D)
South Carolina	-	15	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Georgia	E1	8	6	0.4	2.0	0.4	0.5	1.7	2.8	1.0	4.0	(Z)	CC	(D)
Florida	E3	22	14	0.8	4.7	0.7	1.2	3.8	9.0	7.7	17.2	0.1	EE	(D)
East South Central Division:														
Kentucky	E1	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Tennessee	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Alabama	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Mississippi	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Oklahoma	E1	10	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Texas	E1	20	16	2.2	13.1	1.9	3.5	10.1	22.8	13.2	35.3	0.3	EE	(D)
Pacific Division:														
Oregon	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
California	-	35	20	1.8	14.3	1.4	2.4	8.0	32.5	42.3	73.5	0.6	EE	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977												1972	
		All establishments		All employees		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2361-11, Manufacturers														
United States	(NA)	194	106	12.9	85.7	11.2	19.4	65.4	187.5	155.7	340.7	2.9	14.5	160.3
New England Division:														
Maine	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Rhode Island	E1	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Middle Atlantic Division:														
New York	E4	64	28	2.5	16.1	2.1	3.7	12.4	33.6	26.8	59.7	0.7	2.6	34.3
New Jersey	E2	17	10	0.7	4.8	0.6	1.1	3.9	10.9	9.4	20.4	0.1	BB	(D)
Pennsylvania	–	16	7	1.6	11.5	1.3	2.4	8.4	27.2	24.4	51.1	0.1	2.8	28.2
South Atlantic Division:														
Maryland	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina	–	12	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	16.7
South Carolina	–	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	13.6
Florida	E7	12	7	0.4	2.2	0.3	0.5	1.7	4.0	3.6	7.6	0.1	CC	(D)
East South Central Division:														
Kentucky	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Alabama	–	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West South Central Division:														
Oklahoma	E2	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas	E2	12	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pacific Division:														
Oregon	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
California	–	18	8	0.6	5.0	0.6	1.0	3.4	13.0	9.2	21.9	0.2	CC	(D)
Industry 2361-22, Jobbers														
United States	(NA)	65	47	3.8	36.8	2.5	4.4	17.3	110.7	211.2	317.4	1.2	3.2	78.4
Middle Atlantic Division:														
New York	–	35	24	1.3	16.1	0.7	1.4	6.6	55.7	112.2	165.6	0.3	2.1	50.9
New Jersey	–	8	7	0.5	5.5	0.4	0.6	3.0	13.0	29.4	41.5	0.1	0.4	11.4
Pennsylvania	E1	5	2	0.2	1.4	0.2	0.3	1.0	6.9	12.8	19.5	(D)	(NA)	(NA)
East North Central Division:														
Ohio	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Atlantic Division:														
South Carolina	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Texas	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	–	7	6	0.7	5.9	0.4	0.6	2.3	11.4	31.8	42.5	0.1	(NA)	(NA)
Industry 2361-33, Contractors														
United States	(NA)	260	221	18.6	108.0	16.8	28.7	87.0	146.4	21.9	166.6	2.3	17.6	97.1
New England Division:														
Maine	–	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	E1	55	39	1.8	11.7	1.7	3.3	10.2	14.1	2.5	16.6	0.1	1.9	12.4
New Jersey	–	31	24	1.1	6.6	1.0	1.7	5.8	8.9	0.9	9.9	0.1	EE	(D)
Pennsylvania	E1	58	56	3.8	21.3	3.5	5.5	18.2	27.7	3.5	31.1	0.2	3.4	20.3
East North Central Division:														
Michigan	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Virginia	E1	23	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
North Carolina	–	23	23	1.8	9.5	1.6	2.7	8.0	15.0	2.3	17.3	0.4	EE	(D)
South Carolina	–	10	10	2.2	11.6	1.9	3.4	9.2	14.3	1.2	15.4	0.5	FF	(D)
Georgia	–	6	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida	E3	8	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
East South Central Division:														
Kentucky	E0	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Tennessee	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Alabama	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Mississippi	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Oklahoma	–	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Texas	E3	6	6	1.1	6.2	1.0	1.7	5.1	7.4	2.0	9.3	(D)	CC	(D)
Pacific Division:														
California	–	10	6	0.5	3.5	0.4	0.8	2.3	8.1	1.3	9.1	(D)	BB	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 2363, CHILDREN'S COATS AND SUITS														
United States	E1	120	70	6.7	45.8	5.7	9.7	35.1	90.2	86.2	173.8	1.3	9.3	90.4
New England Division:														
New Hampshire	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Connecticut	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	E1	46	19	1.3	10.3	1.1	1.8	7.1	21.5	34.7	55.4	0.5	2.8	35.0
New Jersey	E1	27	13	0.9	6.2	0.8	1.4	5.1	11.1	9.9	21.1	(D)	1.8	13.8
Pennsylvania	E1	10	8	0.7	5.1	0.6	1.1	4.3	9.7	3.1	12.7	0.2	1.2	10.9
West North Central Division:														
Minnesota	–	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Atlantic Division:														
North Carolina	E4	6	4	0.5	3.6	0.5	0.8	3.0	3.8	1.6	5.5	(Z)	BB	(D)
South Carolina	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Georgia	E5	5	5	0.3	1.8	0.3	0.5	1.4	2.4	1.4	3.9	0.1	BB	(D)
East South Central Division:														
Tennessee	–	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pacific Division:														
Washington	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Industry 2363-11, Manufacturers														
United States	(NA)	61	27	3.8	26.3	3.2	5.7	19.6	58.3	50.5	107.4	1.0	5.0	54.4
New England Division:														
New Hampshire	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	E5	25	8	0.7	4.5	0.6	1.0	3.5	8.1	8.3	16.4	0.2	1.7	20.2
New Jersey	E1	13	3	0.2	1.9	0.2	0.4	1.3	4.3	5.2	9.7	0.1	BB	(D)
Pennsylvania	E2	5	3	0.4	3.2	0.4	0.7	2.7	6.7	3.0	9.6	0.2	0.6	6.9
South Atlantic Division:														
North Carolina	E3	3	1	0.2	1.1	0.1	0.2	0.7	1.8	1.0	2.8	(Z)	AA	(D)
South Carolina	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
East South Central Division:														
Tennessee	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pacific Division:														
Washington	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Industry 2363-22, Jobbers														
United States	(NA)	15	6	0.3	3.9	0.2	0.4	1.8	12.9	31.0	42.8	(Z)	0.5	14.7
Middle Atlantic Division:														
New York	–	10	4	0.2	3.0	0.2	0.3	1.3	9.3	23.8	32.4	(Z)	0.4	9.6
Industry 2363-33, Contractors														
United States	(NA)	44	37	2.6	15.6	2.2	3.7	13.8	19.0	4.7	23.6	0.3	3.8	21.3
New England Division:														
Connecticut	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	–	11	7	0.4	2.8	0.3	0.5	2.3	4.0	2.6	6.6	(D)	0.8	5.3
New Jersey	E1	10	9	0.6	3.7	0.6	0.9	3.4	3.9	0.5	4.4	(Z)	EE	(D)
Pennsylvania	–	5	5	0.3	1.9	0.2	0.4	1.7	3.1	0.1	3.1	(Z)	CC	(D)
West North Central Division:														
Minnesota	–	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
North Carolina	E4	3	3	0.3	2.5	0.3	0.5	2.4	2.1	0.5	2.6	(D)	BB	(D)
Georgia	–	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2369, CHILDREN'S OUTERWEAR, N.E.C.														
United States	-	363	242	29.3	184.9	25.1	45.4	144.1	344.4	364.2	718.8	6.7	30.1	282.9
New England Division:														
Massachusetts	E4	16	9	1.0	7.8	0.8	1.6	5.5	13.9	13.0	26.6	(D)	EE	(D)
Middle Atlantic Division:														
New York	E2	121	59	4.0	27.8	3.5	6.0	20.6	56.7	82.9	142.3	0.8	5.7	73.5
New Jersey	E2	28	17	1.4	9.3	1.2	2.2	7.3	12.1	11.6	26.1	(D)	1.5	12.7
Pennsylvania	E1	31	28	2.2	15.2	1.9	3.3	12.8	30.9	21.0	50.8	0.3	1.9	14.3
East North Central Division:														
Michigan	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West North Central Division:														
Missouri	-	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
Maryland	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	3.8
Virginia	-	7	7	1.8	10.9	1.6	2.7	9.2	16.4	25.2	41.3	(D)	1.6	12.5
North Carolina	-	22	19	3.4	19.7	3.0	5.3	17.1	33.0	23.8	56.6	0.6	2.3	14.4
South Carolina	-	11	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Georgia	-	13	13	2.2	12.9	2.0	3.6	10.8	28.3	22.2	51.2	(D)	1.4	10.8
Florida	-	16	11	1.0	7.5	0.8	1.7	5.3	13.5	12.8	26.3	(D)	1.7	13.3
East South Central Division:														
Tennessee	-	6	5	0.9	5.1	0.7	1.3	4.1	8.7	5.7	14.1	(D)	CC	(D)
Alabama	-	15	11	2.2	11.9	1.9	3.3	9.5	23.2	17.7	43.3	(D)	EE	(D)
Mississippi	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Arkansas	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana	E0	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Texas	-	13	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Mountain Division:														
Colorado	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Utah	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Oregon	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
California	-	21	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	17.4
Industry 2369-11, Manufacturers														
United States	(NA)	211	124	17.7	110.1	15.0	27.7	85.9	193.3	230.3	433.5	4.3	15.7	141.3
New England Division:														
Massachusetts	E8	10	4	0.3	1.6	0.2	0.4	1.1	3.0	3.3	6.2	0.1	BB	(D)
Middle Atlantic Division:														
New York	E4	79	37	2.4	15.6	2.1	3.8	11.9	25.3	28.2	55.7	0.5	2.8	24.7
New Jersey	E3	13	6	0.7	4.6	0.5	1.0	3.6	5.3	8.9	16.7	0.2	AA	(D)
Pennsylvania	E2	13	10	0.7	5.1	0.7	1.2	3.9	10.0	7.8	17.1	0.2	CC	(D)
West North Central Division:														
Missouri	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Virginia	-	4	4	1.5	9.3	1.3	2.3	7.8	14.5	25.1	39.2	(D)	1.3	10.1
North Carolina	-	8	6	1.1	6.7	1.0	1.8	5.4	10.7	12.2	22.8	(Z)	1.1	7.5
South Carolina	-	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Georgia	-	10	10	1.7	10.3	1.5	2.8	8.5	21.8	18.1	40.5	0.3	0.9	8.2
Florida	-	11	6	0.8	6.0	0.7	1.4	4.3	9.3	9.8	19.5	0.1	1.5	10.2
East South Central Division:														
Tennessee	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Alabama	-	10	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Mississippi	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Louisiana	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Texas	-	12	8	1.2	6.5	1.1	2.0	5.3	11.6	17.8	29.5	0.3	CC	(D)
Mountain Division:														
Colorado	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Oregon	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California	E1	9	2	0.3	2.3	0.2	0.4	1.4	3.8	4.9	8.7	0.1	BB	(D)
Industry 2369-22, Jobbers														
United States	(NA)	38	24	2.6	21.5	2.0	3.6	14.0	75.2	123.5	198.6	0.8	2.4	69.3
Middle Atlantic Division:														
New York	-	16	7	0.5	5.6	0.4	0.7	2.7	22.2	54.1	76.8	0.1	1.3	36.3
Pennsylvania	-	3	3	0.4	3.6	0.4	0.7	3.2	12.2	11.2	23.0	(D)	(NA)	(NA)
South Atlantic Division:														
North Carolina	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Division:														
Mississippi	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mountain Division:														
Utah	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2369-33, Contractors														
United States	(NA)	114	94	9.0	53.3	8.0	14.2	(D)	(D)	(D)	(D)	1.6	12.0	72.3
New England Division:														
Massachusetts	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Middle Atlantic Division:														
New York	E2	26	15	1.1	6.6	1.0	1.5	5.9	9.2	0.6	9.8	0.1	1.6	12.5
New Jersey	E3	12	10	0.7	4.3	0.6	1.1	3.5	5.8	0.3	6.2	0.2	1.2	7.7
Pennsylvania	E1	15	15	1.0	6.5	0.9	1.5	5.6	8.7	2.0	10.7	0.1	1.3	7.8
South Atlantic Division:														
Virginia	-	3	3	0.3	1.5	0.3	0.5	1.4	1.9	0.1	2.1	(D)	BB	(D)
North Carolina	-	12	11	1.8	10.7	1.7	2.9	9.4	14.3	0.8	14.9	0.3	EE	(D)
South Carolina	-	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Georgia	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Florida	E1	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
East South Central Division:														
Tennessee	-	4	4	0.5	2.6	0.4	0.6	1.8	3.9	0.2	4.0	(D)	CC	(D)
Alabama	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West South Central Division:														
Arkansas	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	-	7	7	0.5	2.4	0.4	0.7	2.0	3.7	0.6	4.3	(D)	BB	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Women's and children's underwear (SIC 2341)				Brassieres and allied garments (SIC 2342)	Millinery (SIC 2351)	Hats and caps, except millinery (SIC 2352)
		Total	Manufacturers (SIC 2341-11)	Jobbers (SIC 2341-22)	Contractors (SIC 2341-33)			
Primary product specialization ratio[1]	percent	95	(NA)	(NA)	(NA)	92	99	96
Coverage ratio[2]	do	87	(NA)	(NA)	(NA)	99	(D)	94
All establishments	number	698	346	90	262	180	151	258
With 1 to 19 employees	do	219	137	44	38	64	104	136
With 20 to 99 employees	do	257	102	29	126	50	45	86
With 100 employees or more	do	222	107	17	98	56	2	36
All employees, average for year	1,000	72.9	33.5	6.2	33.3	18.9	2.7	12.4
Payroll for year, all employees	mil. dol.	472.1	218.7	54.3	199.0	141.1	20.2	85.1
Production workers:								
Average for year	1,000	63.4	28.8	4.2	30.3	15.2	2.2	11.1
March	do	61.6	28.1	4.1	29.4	15.1	2.4	10.8
May	do	62.8	28.6	4.2	30.0	15.5	2.0	11.2
August	do	64.4	29.1	4.3	31.0	14.9	2.1	11.2
November	do	64.6	29.6	4.3	30.7	15.2	2.1	11.3
Hours	millions	112.6	51.8	7.0	53.8	27.0	3.7	20.1
January to March	do	26.7	12.2	1.7	12.8	6.6	1.0	4.9
April to June	do	28.2	13.0	1.8	13.4	7.1	0.9	5.2
July to September	do	28.7	13.0	1.8	13.9	6.4	0.9	4.9
October to December	do	29.0	13.5	1.8	13.8	6.9	0.9	5.1
Wages	mil. dol.	359.8	168.2	24.7	166.8	89.1	13.7	55.3
Cost of materials, etc.	do	878.2	404.3	409.1	64.7	318.2	42.5	136.8
Materials, parts, containers, etc., consumed	do	659.8	367.5	238.9	53.5	225.1	41.0	118.7
Resales	do	18.6	9.3	8.7	0.5	48.7	(D)	(D)
Fuels consumed	do	3.5	0.8	0.2	2.6	0.6	0.2	1.9
Purchased electric energy	do	11.9	4.5	1.1	6.2	2.8	0.3	1.8
Contract work	do	184.4	22.3	160.3	1.9	41.0	(D)	(D)
Value of shipments, including resales	do	1 780.8	845.1	588.4	347.3	650.0	75.1	284.8
Value of resales	do	24.6	12.3	11.7	0.7	62.3	(D)	(D)
Value added by manufacture	do	915.3	441.5	186.3	287.6	334.4	32.8	152.7
Manufacturers' inventories:								
Beginning of year	do	256.5	137.7	77.2	41.5	116.7	5.7	47.6
Finished products	do	116.9	62.5	39.0	15.4	51.2	3.4	18.5
Work in process	do	58.2	33.6	12.8	11.8	29.4	0.5	5.5
Materials, supplies, fuel, etc.	do	81.4	41.7	25.4	14.3	36.1	1.8	23.6
End of year	do	275.9	141.6	87.4	46.9	121.9	5.8	51.7
Finished products	do	123.2	62.7	43.0	17.4	52.0	3.6	20.9
Work in process	do	64.7	34.1	15.8	14.8	31.2	0.5	8.0
Materials, supplies, fuel, etc.	do	88.0	44.8	28.5	14.7	38.7	1.7	22.9
Capital expenditures for plant and equipment	do	19.3	6.9	3.5	9.0	4.9	0.2	4.2
New capital expenditures	do	18.7	6.7	3.3	8.7	4.2	0.2	3.9
New buildings and other structures	do	5.5	2.2	1.4	1.9	0.8	(Z)	1.2
New machinery and equipment	do	13.2	4.5	2.0	6.8	3.5	0.2	2.7
Used capital expenditures	do	0.6	0.2	0.2	0.3	0.7	-	0.3

See footnotes at end of table.

Table 3a. **Summary Statistics for the Industry: 1977**—Con.

[For explanation of terms, see appendix A]

Item	Unit of measure	Children's dresses and blouses (SIC 2361)				Children's coats and suits (SIC 2363)			
		Total	Manufacturers (SIC 2361-11)	Jobbers (SIC 2361-22)	Contractors (SIC 2361-33)	Total	Manufacturers (SIC 2363-11)	Jobbers (SIC 2363-22)	Contractors (SIC 2363-33)
Primary product specialization ratio[1]	percent	89	(NA)	(NA)	(NA)	87	(NA)	(NA)	(NA)
Coverage ratio[2]	do	87	(NA)	(NA)	(NA)	78	(NA)	(NA)	(NA)
All establishments	number	519	194	65	260	120	61	15	44
With 1 to 19 employees	do	145	88	18	39	50	34	9	7
With 20 to 99 employees	do	280	70	38	172	52	18	6	28
With 100 employees or more	do	94	36	9	49	18	9	-	9
All employees, average for year	1,000	35.2	12.9	3.8	18.6	6.7	3.8	0.3	2.6
Payroll for year, all employees	mil. dol.	228.4	85.7	36.8	106.0	45.8	26.3	3.9	15.6
Production workers:									
Average for year	1,000	30.4	11.2	2.5	16.8	5.7	3.2	0.2	2.2
March	do	30.9	11.4	2.5	16.9	5.5	3.2	0.2	2.1
May	do	30.9	11.3	2.5	17.1	5.9	3.3	0.2	2.4
August	do	29.9	11.0	2.5	16.3	6.0	3.3	0.3	2.5
November	do	30.1	11.0	2.4	16.6	5.4	3.2	0.2	1.9
Hours	millions	52.5	19.4	4.4	28.7	9.7	5.7	0.4	3.7
January to March	do	13.3	5.0	1.1	7.2	2.4	1.5	0.1	0.8
April to June	do	13.4	4.9	1.1	7.4	2.6	1.5	0.1	1.0
July to September	do	12.7	4.7	1.1	6.9	2.5	1.4	0.1	1.0
October to December	do	13.0	4.9	1.1	7.1	2.2	1.3	0.1	0.8
Wages	mil. dol.	169.7	65.4	17.3	87.0	35.1	19.6	1.8	13.8
Cost of materials, etc.	do	388.8	155.7	211.2	21.9	86.2	50.5	31.0	4.7
Materials, parts, containers, etc., consumed	do	273.8	137.9	119.3	16.7	67.3	46.8	16.6	3.9
Resales	do	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fuels consumed	do	2.1	0.8	0.3	1.1	0.3	0.2	(Z)	0.1
Purchased electric energy	do	5.0	1.7	0.6	2.7	0.8	0.4	0.1	0.4
Contract work	do	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Value of shipments, including resales	do	824.7	340.7	317.4	166.6	173.8	107.4	42.8	23.6
Value of resales	do	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Value added by manufacture	do	444.6	187.5	110.7	146.4	90.2	58.3	12.9	19.0
Manufacturers' inventories:									
Beginning of year	do	94.9	49.0	36.7	9.1	17.1	12.1	3.4	1.7
Finished products	do	30.8	13.2	15.6	1.9	5.7	3.7	1.4	0.6
Work in process	do	29.9	17.7	8.2	3.9	5.0	3.7	0.9	0.4
Materials, supplies, fuel, etc.	do	34.3	18.1	12.9	3.3	6.4	4.6	1.1	0.7
End of year	do	106.5	53.0	42.7	10.8	20.7	14.0	4.8	1.9
Finished products	do	35.1	14.5	18.1	2.4	7.2	4.4	2.3	0.6
Work in process	do	34.3	18.9	10.3	5.1	6.1	4.5	1.1	0.5
Materials, supplies, fuel, etc.	do	37.2	19.5	14.3	3.3	7.5	5.2	1.5	0.8
Capital expenditures for plant and equipment	do	6.8	3.1	1.3	2.4	1.5	1.1	0.1	0.3
New capital expenditures	do	6.4	2.9	1.2	2.3	1.3	1.0	(Z)	0.3
New buildings and other structures	do	1.2	0.6	0.1	0.4	0.2	0.2	(Z)	(Z)
New machinery and equipment	do	5.2	2.2	1.1	1.8	1.1	0.8	(Z)	0.3
Used capital expenditures	do	0.4	0.3	0.1	0.1	0.1	0.1	(Z)	(Z)

See footnotes at end of table.

Table 3a. **Summary Statistics for the Industry: 1977**—Con.

[For explanation of terms, see appendix A]

Item	Unit of measure	Children's outerwear, n.e.c. (SIC 2369)			
		Total	Manufacturers (SIC 2369-11)	Jobbers (SIC 2369-22)	Contractors (SIC 2369-33)
Primary product specialization ratio[1]	percent	84	(NA)	(NA)	(NA)
Coverage ratio[2]	do	77	(NA)	(NA)	(NA)
All establishments	number	363	211	38	114
With 1 to 19 employees	do	121	87	14	20
With 20 to 99 employees	do	147	67	16	64
With 100 employees or more	do	95	57	8	30
All employees, average for year	1,000	29.3	17.7	2.6	9.0
Payroll for year, all employees	mil. dol.	184.9	110.1	21.5	53.3
Production workers:					
Average for year	1,000	25.1	15.0	2.0	8.0
March	do	25.2	15.3	1.9	8.0
May	do	25.1	14.9	1.9	8.2
August	do	24.5	14.6	2.0	7.9
November	do	25.4	15.3	2.0	8.1
Hours	millions	45.4	27.7	3.6	14.2
January to March	do	11.2	6.9	0.9	3.5
April to June	do	11.6	7.1	0.8	3.6
July to September	do	11.3	6.8	0.9	3.6
October to December	do	11.3	6.9	0.9	3.5
Wages	mil. dol.	144.1	85.9	14.0	44.2
Cost of materials, etc.	do	364.2	230.3	123.5	10.4
Materials, parts, containers, etc., consumed	do	298.6	209.0	80.7	8.9
Resales	do	6.7	6.4	0.2	–
Fuels consumed	do	0.9	0.5	0.2	0.3
Purchased electric energy	do	3.7	2.4	0.4	1.0
Contract work	do	54.3	12.0	42.0	0.3
Value of shipments, including resales	do	718.8	433.5	198.6	86.7
Value of resales	do	13.6	8.9	4.6	–
Value added by manufacture	do	344.4	193.3	75.2	76.0
Manufacturers' inventories:					
Beginning of year	do	127.5	90.6	32.5	4.4
Finished products	do	50.7	30.9	18.7	1.1
Work in process	do	31.9	25.6	4.3	1.9
Materials, supplies, fuel, etc.	do	44.9	34.1	9.5	1.4
End of year	do	118.5	78.6	35.6	4.3
Finished products	do	41.5	23.2	17.6	0.8
Work in process	do	30.9	23.4	5.6	2.0
Materials, supplies, fuel, etc.	do	46.1	32.0	12.5	1.6
Capital expenditures for plant and equipment	do	8.0	4.6	1.2	2.2
New capital expenditures	do	6.7	4.3	0.8	1.6
New buildings and other structures	do	1.1	1.0	(Z)	0.1
New machinery and equipment	do	5.6	3.4	0.8	1.5
Used capital expenditures	do	1.3	0.3	0.4	0.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Women's and children's underwear (SIC 2341)		Brassieres and allied garments (SIC 2342)		Millinery (SIC 2351)		Hats and caps, except millinery (SIC 2352)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	4.1	1	0.5	5	-	(X)	0.2	37
Response coverage ratio[2] (percent)	61.7	(X)	62.6	(X)	59.3	(X)	59.7	(X)
Machinery	(7.3)	21	0.6	13	(0.1)	72	(0.9)	17
Response coverage ratio[2] (percent)	60.0	(X)	62.5	(X)	60.0	(X)	83.3	(X)
Cost of purchased communication services	2.2	13	(1.0)	40	(0.2)	60	(1.0)	27
Response coverage ratio[2] (percent)	60.7	(X)	69.0	(X)	60.0	(X)	79.0	(X)
Rental payments	12.7	5	5.2	11	(1.6)	36	(3.1)	16
Buildings and other structures	8.7	7	3.2	12	(1.5)	38	(2.0)	26
Machinery and equipment	4.0	13	(2.0)	25	(0.1)	84	(1.1)	43
Supplemental labor costs	63.4	2	20.9	2	2.6	7	12.7	8
Legal costs	38.1	1	11.1	3	1.8	7	8.0	8
Voluntary costs	25.3	2	9.7	2	0.8	14	4.7	11
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	72.9	5	16.9	7	(0.3)	69	(11.5)	37
New capital expenditures	5.9	10	(0.9)	16	-	(X)	(0.3)	52
Used capital expenditures	(0.4)	31	0.2	1	-	(X)	-	(X)
Retirements	3.2	11	(1.0)	23	-	(X)	(1.1)	50
End of year	75.9	5	16.9	7	(0.2)	71	(10.7)	36
Machinery and equipment:								
Beginning of year	128.8	3	38.1	7	(9.6)	68	(20.0)	19
New capital expenditures	14.2	8	3.3	7	(0.1)	89	(3.9)	35
Automobiles, trucks, etc., for highway use[3]	(0.7)	(A)	(0.2)	(A)	(Z)	(A)	(1.2)	(A)
Computers and peripheral data processing equipment[3]	(0.1)	(A)	(Z)	(A)	-	(X)	(0.4)	(A)
All other[3]	(7.1)	(A)	(2.5)	(A)	(0.1)	(A)	(2.3)	(A)
New machinery and equipment, n.s.k.[4]	(6.3)	(A)	(0.6)	(A)	(Z)	(A)	(0.1)	(A)
Used capital expenditures	(0.6)	33	(0.1)	39	-	(X)	(0.3)	12
Retirements	(7.1)	18	(2.6)	18	(1.0)	81	(0.9)	65
End of year	136.5	3	38.9	6	(8.8)	65	(23.3)	15
Total gross value of depreciable assets:								
Beginning of year	201.7	3	55.0	5	(9.9)	66	(31.5)	24
New capital expenditures	20.1	8	4.1	8	(0.1)	89	(4.2)	32
Used capital expenditures	(0.9)	26	0.3	14	-	(X)	(0.3)	12
Retirements	10.4	14	3.6	14	(1.0)	80	(2.0)	51
End of year	212.4	3	55.8	5	(9.0)	64	(34.0)	20
Depreciation charges during 1977	15.9	3	6.2	5	(1.4)	66	(2.3)	20
Buildings and other structures	3.6	5	1.1	7	-	(X)	(0.4)	41
Machinery and equipment	12.2	3	5.1	5	(1.4)	66	(1.9)	17

See footnotes at end of table.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977—Con.

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Children's dresses and blouses (SIC 2361)		Children's coats and suits (SIC 2363)		Children's outerwear, n.e.c. (SIC 2369)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	(0.7)	65	-	-	0.4	11
Response coverage ratio[2] (percent)	54.6	(X)	46.7	(X)	64.9	(X)
Machinery	(0.9)	20	(0.1)	41	1.1	9
Response coverage ratio[2] (percent)	59.1	(X)	47.0	(X)	49.8	(X)
Cost of purchased communication services	(1.7)	34	(0.1)	21	(1.1)	26
Response coverage ratio[2] (percent)	59.0	(X)	50.4	(X)	50.1	(X)
Rental payments	(11.5)	33	(1.8)	16	6.2	8
Buildings and other structures	(8.8)	33	(1.2)	19	3.7	12
Machinery and equipment	(2.7)	37	(0.6)	50	2.5	10
Supplemental labor costs	29.9	4	6.3	7	24.9	2
Legal costs	18.3	5	4.2	8	15.5	2
Voluntary costs	11.6	8	2.1	13	9.4	4
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning or year	39.8	10	(1.8)	22	28.2	6
New capital expenditures	(1.8)	21	(0.1)	(A)	(1.0)	20
Used capital expenditures	(0.2)	64	-	89	(1.1)	56
Retirements	(2.2)	19	-	(A)	2.3	7
End of year	39.6	10	(1.8)	24	28.0	5
Machinery and equipment:						
Beginning of year	62.6	6	(11.9)	27	48.4	4
New capital expenditures	5.7	13	(1.1)	44	(5.7)	16
Automobiles, trucks, etc., for highway use[3]	(0.1)	(A)	(Z)	(A)	(1.0)	(A)
Computers and peripheral data processing equipment[3]	(Z)	(A)	(Z)	(A)	(0.1)	(A)
All other[3]	(2.2)	(A)	(0.3)	(A)	(3.4)	(A)
New machinery and equipment, n.s.k.[4]	(3.4)	(A)	(0.8)	(A)	(1.2)	(A)
Used capital expenditures	(0.5)	22	(0.2)	26	(1.1)	29
Retirements	4.5	12	(0.5)	33	6.4	7
End of year	64.2	5	(12.7)	24	48.8	4
Total gross value of depreciable assets:						
Beginning of year	102.3	7	(13.7)	24	76.6	4
New capital expenditures	(7.5)	15	(1.2)	48	6.7	14
Used capital expenditures	(0.6)	35	(0.2)	29	(2.2)	31
Retirements	6.8	13	(0.5)	40	8.7	6
End of year	103.7	6	(14.5)	21	76.8	4
Depreciation charges during 1977	8.8	9	0.9	15	6.9	3
Buildings and other structures	(1.8)	18	(0.1)	26	1.5	4
Machinery and equipment	6.9	7	(0.9)	17	5.5	4

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

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Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2341, WOMEN'S AND CHILDREN'S UNDERWEAR												
Total	-	698	72.9	472.1	63.4	112.6	359.6	915.3	878.2	1 780.8	18.7	275.9
Establishments with an average of—												
1 to 4 employees	E7	77	0.1	1.3	0.1	0.2	0.8	(Z)	3.0	5.0	0.1	0.8
5 to 9 employees	E2	57	0.4	3.3	0.3	0.5	1.6	8.6	20.0	28.7	0.1	4.6
10 to 19 employees	-	85	1.2	10.2	0.9	1.7	5.7	29.1	55.4	83.0	0.3	12.9
20 to 49 employees	E1	153	4.6	31.1	3.9	6.6	21.7	71.3	99.0	170.1	1.2	24.3
50 to 99 employees	-	104	7.3	47.3	6.4	11.2	35.3	100.1	69.2	168.1	1.1	21.9
100 to 249 employees	-	128	20.0	126.7	17.5	30.3	95.6	257.3	230.6	482.3	4.3	70.6
250 to 499 employees	-	72	24.7	153.6	21.9	39.3	125.2	289.3	291.0	577.5	7.9	87.6
500 to 999 employees	-	20	(14.6)	(98.6)	(12.4)	(22.9)	(73.7)	(159.7)	(110.0)	(266.1)	(3.7)	(53.4)
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	103	0.5	3.4	0.5	0.8	2.4	6.6	6.5	13.1	0.1	2.3
Industry 2341-11, Manufacturers												
Total	-	346	33.5	218.7	28.8	51.8	168.2	441.5	404.3	845.1	6.7	141.6
Establishments with an average of—												
1 to 4 employees	E9	59	0.1	0.8	0.1	0.1	0.7	(S)	0.9	1.8	(1.6)	0.3
5 to 9 employees	E8	35	0.2	1.5	0.2	0.4	1.1	1.5	4.1	5.6	(D)	1.0
10 to 19 employees	E4	43	0.6	3.9	0.5	0.9	2.9	11.1	7.0	18.2	(D)	2.3
20 to 49 employees	E3	51	1.5	9.3	1.3	2.1	6.9	28.0	15.8	43.6	0.5	5.1
50 to 99 employees	-	51	3.7	24.5	3.2	5.6	17.7	48.3	42.0	90.0	0.6	14.4
100 to 249 employees	-	66	10.2	63.4	9.0	15.8	51.2	133.8	114.6	247.7	1.9	34.8
250 to 499 employees	-	31	10.7	71.0	9.2	17.0	55.5	138.5	138.1	275.6	(2.1)	58.8
500 to 999 employees	-	9	(6.5)	(44.4)	(5.4)	(9.8)	(32.2)	(81.3)	(81.9)	(162.5)	(D)	(24.9)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	84	0.4	2.8	0.4	0.7	2.0	5.4	5.0	10.4	0.1	1.8
Industry 2341-22, Jobbers												
Total	-	90	6.2	54.3	4.2	7.0	24.7	166.3	409.1	588.4	3.3	87.4
Establishments with an average of—												
1 to 4 employees	E6	12	(Z)	0.3	(Z)	(Z)	0.1	0.8	2.1	2.9	(2.5)	0.5
5 to 9 employees	E1	15	0.1	1.5	(Z)	0.1	0.3	6.7	15.8	22.6	(D)	3.5
10 to 19 employees	-	17	0.2	3.8	0.1	0.2	0.9	14.4	47.8	60.6	(D)	10.1
20 to 49 employees	-	22	0.6	7.6	0.3	0.5	2.3	23.1	78.8	102.3	(0.3)	16.7
50 to 99 employees	-	7	0.5	4.4	0.4	0.6	2.2	14.1	18.4	32.1	(D)	3.8
100 to 249 employees	-	8	1.2	15.1	0.6	0.8	3.1	45.9	88.7	130.8	(0.5)	27.5
250 to 499 employees	-	8	(3.5)	(21.7)	(2.8)	(4.8)	(15.9)	(81.2)	(157.6)	(237.0)	(D)	(25.3)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	8	(Z)	0.2	(Z)	(Z)	(Z)	0.5	1.4	1.9	(Z)	0.4
Industry 2341-33, Contractors												
Total	-	262	33.3	199.0	30.3	53.8	166.8	287.6	64.7	347.3	8.7	46.9
Establishments with an average of—												
1 to 4 employees	E7	6	(Z)	0.1	(Z)	(Z)	0.1	0.2	(Z)	0.2	(Z)	(Z)
5 to 9 employees	E8	7	0.1	0.3	0.1	0.1	0.3	0.4	0.1	0.5	(Z)	(Z)
10 to 19 employees	-	25	0.4	2.5	0.3	0.5	1.9	3.5	0.7	4.2	0.1	0.5
20 to 49 employees	E1	80	2.5	14.3	2.3	4.0	12.4	20.1	4.4	24.2	(6.7)	2.5
50 to 99 employees	-	46	3.1	18.4	2.8	5.0	15.5	37.7	8.7	46.0	(D)	3.7
100 to 249 employees	-	54	8.6	48.2	7.9	13.7	41.3	77.6	27.3	103.7	(1.9)	8.3
250 to 499 employees	-	33	(18.6)	(115.2)	(16.8)	(30.4)	(95.3)	(148.1)	(23.4)	(168.5)	(D)	(31.9)
500 to 999 employees	-	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	11	0.1	0.4	0.1	0.1	0.4	0.7	0.1	0.8	(Z)	0.1
INDUSTRY 2342, BRASSIERES AND ALLIED GARMENTS												
Total	-	180	18.9	141.1	15.2	27.0	89.1	334.4	318.2	650.0	4.2	121.9
Establishments with an average of—												
1 to 4 employees	E9	27	(Z)	0.3	(Z)	0.1	0.2	(S)	0.4	1.0	(Z)	0.2
5 to 9 employees	E8	13	0.1	0.6	0.1	0.1	0.4	1.1	0.7	1.8	(Z)	0.3
10 to 19 employees	E6	24	0.3	2.6	0.3	0.5	1.7	5.7	5.1	10.8	0.1	2.0
20 to 49 employees	-	34	1.2	8.6	0.9	1.8	5.2	18.3	27.0	45.3	0.3	5.6
50 to 99 employees	-	26	2.0	14.4	1.7	3.1	9.6	29.6	32.7	61.4	0.6	14.5
100 to 249 employees	-	34	5.1	34.5	4.4	7.4	24.8	85.2	77.1	161.8	0.8	16.9
250 to 499 employees	-	14	4.7	32.4	3.8	7.2	21.6	83.5	66.2	149.0	0.6	30.3
500 to 999 employees	-	8	5.4	47.7	4.1	6.9	25.6	113.1	109.1	218.9	1.9	51.0
Covered by administrative records[2]	E0	47	0.3	2.5	0.3	0.5	1.7	4.8	3.6	8.4	0.1	1.5
INDUSTRY 2351, MILLINERY												
Total	E3	151	2.7	20.2	2.2	3.7	13.7	32.8	42.5	75.1	0.2	5.8
Establishments with an average of—												
1 to 4 employees	E8	56	0.1	0.7	0.1	0.1	0.5	1.5	2.3	3.8	(0.1)	0.2
5 to 9 employees	E3	20	0.1	1.3	0.1	0.2	0.9	3.1	4.5	7.5	(D)	0.5
10 to 19 employees	E4	28	0.4	3.3	0.3	0.6	2.1	5.0	6.1	11.1	(Z)	0.6
20 to 49 employees	E3	36	1.1	8.7	0.9	1.5	5.9	14.7	17.1	31.7	(D)	2.0
50 to 99 employees	E2	9	(0.9)	(6.1)	(0.8)	(1.3)	(4.3)	(8.5)	(12.4)	(21.0)	(0.1)	(2.5)
100 to 249 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	48	0.1	0.7	0.1	0.1	0.5	1.5	2.4	3.9	(Z)	0.2

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2352, HATS AND CAPS, EXCEPT MILLINERY												
Total	-	258	12.4	85.1	11.1	20.1	65.3	152.7	136.8	284.8	3.9	51.7
Establishments with an average of—												
1 to 4 employees	E9	78	0.1	0.9	0.1	0.2	0.6	0.8	1.4	3.0	(Z)	0.4
5 to 9 employees	E7	23	0.2	1.3	0.2	0.3	1.0	2.3	2.4	4.7	(Z)	0.6
10 to 19 employees	E1	35	0.5	3.8	0.4	0.8	2.4	7.4	6.9	13.8	0.1	2.4
20 to 49 employees	E2	56	1.8	12.5	1.6	2.8	9.4	21.5	18.7	40.2	0.4	5.4
50 to 99 employees	E1	30	2.2	15.0	1.9	3.4	10.9	34.1	29.1	62.7	0.8	9.3
100 to 249 employees	-	25	3.5	23.0	3.3	5.5	19.4	33.4	37.3	69.5	1.1	13.0
250 to 499 employees	-	8	2.4	14.2	2.1	4.1	11.5	21.4	22.9	43.4	0.5	10.3
500 to 999 employees	-	3	1.7	14.4	1.5	2.9	10.1	31.8	18.1	47.4	1.1	10.3
Covered by administrative records[2]	E0	80	0.3	1.7	0.2	0.4	1.3	3.0	2.6	5.7	0.1	0.8
INDUSTRY 2361, CHILDREN'S DRESSES AND BLOUSES												
Total	-	519	35.2	228.4	30.4	52.5	169.7	444.6	388.8	824.7	6.8	106.5
Establishments with an average of—												
1 to 4 employees	E2	49	0.1	0.5	0.1	0.1	0.3	9.1	10.7	20.0	(Z)	0.5
5 to 9 employees	E7	33	0.2	1.6	0.2	0.4	1.1	3.1	2.8	5.9	(Z)	0.7
10 to 19 employees	E2	83	0.9	6.6	0.7	1.2	3.9	15.6	27.7	43.1	0.2	5.8
20 to 49 employees	E1	169	5.7	36.6	4.9	8.2	27.2	67.4	64.0	131.1	1.1	14.5
50 to 99 employees	-	111	7.9	54.8	6.8	12.1	39.5	102.9	111.5	212.3	0.9	24.6
100 to 249 employees	-	67	10.1	64.8	8.6	14.7	49.0	124.5	90.4	210.9	(4.2)	32.0
250 to 499 employees	-	24	8.5	50.6	7.5	13.1	38.6	99.3	68.0	165.6	(D)	22.8
500 to 999 employees	-	3	1.9	13.0	1.7	2.8	10.0	22.8	13.7	35.8	(D)	5.7
Covered by administrative records[2]	E0	81	0.6	3.9	0.6	0.9	2.9	7.4	6.7	14.1	0.1	1.8
Industry 2361-11, Manufacturers												
Total	E1	194	12.9	85.7	11.2	19.4	65.4	187.5	155.7	340.7	2.9	53.0
Establishments with an average of—												
1 to 4 employees	-	38	(Z)	0.3	(Z)	0.1	0.2	8.2	8.2	16.5	(Z)	0.2
5 to 9 employees	E9	23	0.2	1.1	0.1	0.3	0.8	2.2	2.1	4.2	(Z)	0.6
10 to 19 employees	E6	27	0.4	2.5	0.3	0.5	1.8	5.0	5.4	10.4	0.1	1.4
20 to 49 employees	E5	47	1.6	8.9	1.3	2.4	7.7	21.2	17.6	38.6	0.4	5.1
50 to 99 employees	E1	23	1.7	11.5	1.5	2.6	9.0	23.0	17.4	40.8	0.3	6.1
100 to 249 employees	-	22	(9.1)	(60.4)	(7.9)	(13.6)	(46.0)	(128.1)	(105.1)	(230.2)	(2.1)	(39.6)
250 to 499 employees	-	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	59	0.4	2.6	0.4	0.6	2.0	5.4	5.2	10.5	0.1	1.5
Industry 2361-22, Jobbers												
Total	-	65	3.8	36.8	2.5	4.4	17.3	110.7	211.2	317.4	1.2	42.7
Establishments with an average of—												
1 to 4 employees	E8	5	(Z)	(0.2)	(Z)	(Z)	(0.1)	(1.0)	(2.6)	(3.7)	(0.1)	(0.3)
5 to 9 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	-	12	0.2	2.1	0.1	0.1	0.6	8.3	21.4	29.8	(D)	3.8
20 to 49 employees	-	17	0.6	6.4	0.3	0.6	2.1	17.2	42.4	59.6	0.2	7.3
50 to 99 employees	-	21	1.4	15.4	1.0	1.8	8.0	44.1	88.3	130.2	0.3	15.5
100 to 249 employees	-	7	(1.6)	(12.7)	(1.1)	(1.9)	(6.6)	(40.1)	(56.5)	(94.0)	(0.7)	(15.7)
250 to 499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Industry 2361-33, Contractors												
Total	-	260	18.6	106.0	16.8	28.7	87.0	146.4	21.9	165.6	2.3	10.8
Establishments with an average of—												
1 to 4 employees	E5	6	(0.1)	(0.5)	(0.1)	(0.1)	(0.4)	(0.9)	(0.5)	(1.4)	(1.0)	(0.1)
5 to 9 employees	E2	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E4	24	0.3	2.0	0.3	0.5	1.5	2.3	1.0	3.0	(D)	0.6
20 to 49 employees	-	105	3.6	20.2	3.3	5.3	17.5	29.0	4.0	32.8	(D)	2.0
50 to 99 employees	E1	67	4.8	27.9	4.3	7.8	22.6	35.9	5.8	41.3	0.3	3.0
100 to 249 employees	-	38	5.6	32.9	4.9	8.3	27.0	45.8	6.1	51.3	(1.0)	3.1
250 to 499 employees	-	10	(4.2)	(22.4)	(3.9)	(6.7)	(18.0)	(32.5)	(4.5)	(36.8)	(D)	(2.0)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	18	0.2	1.0	0.2	0.3	0.8	1.4	0.1	1.5	(Z)	0.1
INDUSTRY 2363, CHILDREN'S COATS AND SUITS												
Total	E1	120	8.7	45.8	5.7	9.7	35.1	90.2	86.2	173.8	1.3	20.7
Establishments with an average of—												
1 to 4 employees	E2	19	(Z)	0.3	(Z)	(Z)	0.1	0.6	0.9	1.5	(Z)	0.1
5 to 9 employees	E1	12	0.1	0.9	0.1	0.1	0.6	3.0	4.6	7.5	(Z)	0.7
10 to 19 employees	E2	19	0.3	2.5	0.2	0.4	1.7	7.4	11.9	18.7	0.1	2.3
20 to 49 employees	-	30	1.0	7.0	0.9	1.4	5.3	12.9	16.6	29.0	0.2	3.3
50 to 99 employees	E2	22	1.5	10.0	1.3	2.2	7.7	17.4	18.1	35.7	0.4	3.3
100 to 249 employees	E2	14	2.1	13.7	1.7	2.9	11.4	19.3	11.9	30.8	0.2	3.9
250 to 499 employees	-	3	(1.7)	(11.4)	(1.4)	(2.6)	(8.4)	(29.5)	(22.3)	(50.7)	(0.3)	(7.2)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	15	0.1	0.6	0.1	0.1	0.5	1.1	1.0	2.1	(Z)	0.2

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
Industry 2363-11, Manufacturers												
Total	E1	61	3.8	26.3	3.2	5.7	19.6	58.3	50.5	107.4	1.0	14.0
Establishments with an average of—												
1 to 4 employees	E8	13	(0.1)	(0.6)	(0.1)	(0.1)	(0.4)	(1.1)	(1.0)	(2.0)	(0.1)	(0.2)
5 to 9 employees	E8	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E8	13	0.2	1.5	0.2	0.3	1.2	2.5	2.6	5.1	(D)	0.6
20 to 49 employees	E2	9	0.3	2.3	0.3	0.5	1.9	4.6	4.4	8.9	0.2	0.9
50 to 99 employees	E4	9	0.6	4.2	0.6	0.9	3.1	8.8	9.2	18.0	0.2	1.7
100 to 249 employees	E2	5	0.9	6.3	0.7	1.3	4.6	11.8	11.1	22.6	0.2	3.4
250 to 499 employees	–	3	(1.7)	(11.4)	(1.4)	(2.6)	(8.4)	(29.5)	(22.3)	(50.7)	(0.3)	(7.2)
500 to 999 employees	–	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	14	0.1	0.6	0.1	0.1	0.5	1.1	1.0	2.1	(Z)	0.2
Industry 2363-22, Jobbers												
Total	–	15	0.3	3.9	0.2	0.4	1.8	12.9	31.0	42.8	(Z)	4.8
Establishments with an average of—												
1 to 4 employees	–	1	(Z)	(0.6)	(Z)	(Z)	(0.2)	(2.5)	(4.5)	(6.9)	(D)	(0.6)
5 to 9 employees	–	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	–	4	0.1	0.9	(Z)	0.1	0.4	4.7	9.2	13.3	(Z)	1.6
20 to 49 employees	–	5	(0.2)	(2.4)	(0.2)	(0.3)	(1.2)	(5.7)	(17.3)	(22.6)	(Z)	(2.6)
50 to 99 employees	–	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Industry 2363-33, Contractors												
Total	–	44	2.6	15.6	2.2	3.7	13.8	19.0	4.7	23.6	0.3	1.9
Establishments with an average of—												
1 to 4 employees	–	5	(1.4)	(8.2)	(1.2)	(2.0)	(7.0)	(11.5)	(3.9)	(15.4)	(D)	(1.4)
10 to 19 employees	–	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	–	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	–	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	E2	9	1.2	7.4	1.0	1.6	5.8	7.5	0.8	8.2	(Z)	0.5
Covered by administrative records[2]	E0	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
INDUSTRY 2369, CHILDREN'S OUTERWEAR, N.E.C.												
Total	–	363	29.3	184.9	25.1	45.4	144.1	344.4	364.2	718.8	6.7	118.5
Establishments with an average of—												
1 to 4 employees	E9	50	0.1	0.4	0.1	0.1	0.3	(S)	1.0	1.8	(Z)	0.3
5 to 9 employees	E3	29	0.2	1.5	0.2	0.3	0.9	4.4	9.2	13.5	(Z)	1.8
10 to 19 employees	E3	42	0.6	4.3	0.5	0.9	3.0	8.6	13.7	22.2	0.1	3.8
20 to 49 employees	E2	90	3.0	19.5	2.6	4.7	14.7	37.1	39.3	75.5	0.6	11.1
50 to 99 employees	E1	57	3.9	27.6	3.2	5.7	19.3	63.6	68.0	131.6	1.0	20.0
100 to 249 employees	–	71	11.3	70.0	9.6	17.6	56.3	125.8	110.6	238.2	2.4	37.6
250 to 499 employees	–	18	5.8	33.6	5.1	9.3	27.5	57.7	54.3	113.8	1.4	16.5
500 to 999 employees	–	5	(4.4)	(28.0)	(3.8)	(7.0)	(22.1)	(51.7)	(68.2)	(122.2)	(1.3)	(27.4)
1,000 to 2,499 employees	–	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	59	0.4	2.2	0.3	0.6	1.7	4.1	3.9	8.1	0.1	1.3
Industry 2369-11, Manufacturers												
Total	E1	211	17.7	110.1	15.0	27.7	85.9	193.3	230.3	433.5	4.3	78.6
Establishments with an average of—												
1 to 4 employees	E9	46	0.1	0.4	0.1	0.1	0.3	(S)	0.9	1.7	(Z)	0.3
5 to 9 employees	E8	20	0.2	1.0	0.1	0.2	0.7	1.9	2.0	3.9	(Z)	0.7
10 to 19 employees	E6	21	0.3	1.9	0.2	0.4	1.4	3.4	4.2	7.7	0.1	1.3
20 to 49 employees	E4	48	1.6	10.4	1.4	2.5	7.7	20.2	18.5	38.3	0.4	6.8
50 to 99 employees	E3	19	1.2	8.6	1.0	1.8	6.1	17.2	20.9	38.0	0.3	5.3
100 to 249 employees	E1	39	6.3	39.5	5.3	10.0	30.5	66.8	67.1	135.2	1.1	22.6
250 to 499 employees	–	13	4.2	23.5	3.7	6.6	19.7	40.7	48.9	91.3	1.2	14.3
500 to 999 employees	–	4	(3.8)	(24.8)	(3.2)	(6.0)	(19.5)	(47.4)	(67.8)	(117.6)	(1.2)	(27.3)
1,000 to 2,499 employees	–	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	50	0.3	1.6	0.2	0.4	1.2	3.1	3.6	6.7	0.1	1.2
Industry 2369-22, Jobbers												
Total	–	38	2.6	21.5	2.0	3.6	14.0	75.2	123.5	198.6	0.8	35.6
Establishments with an average of—												
1 to 4 employees	E4	2	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(7.2)	(9.4)	(0.3)	(Z)
5 to 9 employees	–	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E1	7	0.1	1.0	0.1	0.1	0.5	3.4	9.1	12.4	(D)	2.3
20 to 49 employees	–	7	0.2	2.3	0.1	0.2	1.0	7.5	19.1	26.0	(Z)	3.8
50 to 99 employees	–	9	0.6	6.7	0.4	0.7	3.0	27.4	45.3	72.9	(D)	13.6
100 to 249 employees	–	7	(1.6)	(11.5)	(1.4)	(2.4)	(9.5)	(36.9)	(42.8)	(77.9)	(0.4)	(15.9)
250 to 499 employees	–	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Industry 2369-33, Contractors												
Total	–	114	9.0	53.3	8.0	14.2	44.2	76.0	10.4	86.7	1.6	4.3
Establishments with an average of—												
1 to 4 employees	E9	2	(Z)	(0.2)	(Z)	(0.2)	(0.2)	(Z)	(Z)	(0.2)	(0.1)	(Z)
5 to 9 employees	E0	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E2	14	0.2	1.3	0.2	0.3	1.2	1.8	0.3	2.2	(D)	0.1
20 to 49 employees	E1	35	1.2	6.8	1.1	2.0	5.9	9.4	1.8	11.2	(D)	0.5
50 to 99 employees	E1	29	2.0	12.3	1.8	3.1	10.2	19.0	1.8	20.8	0.4	1.0
100 to 249 employees	–	25	(5.5)	(32.6)	(4.9)	(8.7)	(26.7)	(45.8)	(6.5)	(52.3)	(1.1)	(2.6)
250 to 499 employees	E1	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	–	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	7	0.1	0.6	0.1	0.2	0.5	0.9	(Z)	(Z)	(Z)	(Z)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2341	**Women's and children's underwear:**										
	Entire industry	698	72.9	472.1	63.4	112.6	359.8	915.3	878.2	1 780.8	18.7
	Establishments with 75 percent specialization or more	646	67.1	429.7	59.0	104.7	333.4	837.3	748.3	1 573.0	17.4
23412	Women's, misses', children's, and infants' underwear:										
	Establishments with this product class primary	148	19.2	121.5	16.2	27.9	88.8	249.4	280.5	527.0	4.0
	Establishments with 75 percent specialization or more in class	121	13.2	81.4	11.4	19.4	61.5	172.5	197.4	366.8	3.0
23413	Women's, misses', children's and infants nightwear:										
	Establishments with this product class primary	189	26.0	180.3	21.8	39.6	127.9	418.1	530.5	940.9	6.8
	Establishments with 75 percent specialization or more in class	150	19.0	128.4	16.0	29.1	92.1	300.1	284.4	578.8	3.7
23419	Contract work on women's, misses', children's, and infants': underwear and nightwear:										
	Establishments with this product class primary	190	25.3	154.8	23.4	41.6	131.8	210.1	40.8	247.2	7.5
	Establishments with 75 percent specialization or more in class	180	24.2	148.2	22.4	39.8	126.8	199.2	33.1	228.8	7.3
2342	**Brassieres and allied garments:**										
	Entire industry	180	18.9	141.1	15.2	27.0	89.1	334.4	318.2	650.0	4.2
	Establishments with 75 percent specialization or more	168	16.4	117.8	13.4	23.9	78.3	283.0	249.0	528.4	3.3
23421	Brassieres, bra-lettes, and bandeaux:										
	Establishments with this product class primary	54	10.8	86.1	8.1	14.5	48.7	226.4	242.8	464.3	3.0
	Establishments with 75 percent specialization or more in class	35	5.4	39.5	4.3	8.3	26.8	121.8	100.8	222.3	1.1
23422	Corsets, girdles, combinations and accessories:										
	Establishments with this product class primary	34	4.4	32.3	3.8	6.9	22.9	76.9	62.0	139.4	0.8
	Establishments with 75 percent specialization or more in class	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23429	Contract work on brassieres, corsets, and allied garments:										
	Establishments with this product class primary	24	2.8	16.6	2.6	4.3	13.7	20.9	4.0	24.2	0.2
	Establishments with 75 percent specialization or more in class	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2351	**Millinery:**										
	Entire industry	151	2.7	20.2	2.2	3.7	13.7	32.8	42.5	75.1	0.2
	Establishments with 75 percent specialization or more	146	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2352	**Hats and caps, except millinery:**										
	Entire industry	258	12.4	85.1	11.1	20.1	65.3	152.7	136.8	284.8	3.9
	Establishments with 75 percent specialization or more	241	11.6	79.7	10.4	18.9	61.1	144.9	129.4	269.1	(D)
23521	Hats and hat bodies, except cloth and millinery:										
	Establishments with this product class primary	40	3.4	25.7	2.9	5.3	18.1	42.7	40.8	80.0	0.9
	Establishments with 75 percent specialization or more in class	33	2.4	18.7	2.1	3.8	13.3	32.6	31.3	60.8	0.8
23522	Cloth hats and caps:										
	Establishments with this product class primary	92	7.5	49.6	6.8	12.4	39.6	92.5	82.0	172.5	2.7
	Establishments with 75 percent specialization or more in class	86	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2361	**Children's dresses and blouses:**										
	Entire industry	519	35.2	228.4	30.4	52.5	169.7	444.6	388.8	824.7	6.4
	Establishments with 75 percent specialization or more	486	30.1	191.7	26.2	45.1	143.4	366.1	300.3	661.1	5.6
23612	Children's knit sport shirts:										
	Establishments with this product class primary	24	5.4	38.3	4.6	7.9	28.8	93.0	100.6	190.2	1.0
	Establishments with 75 percent specialization or more in class	14	2.7	17.5	2.4	4.0	14.3	44.9	37.7	82.7	0.5
23619	Contract work on children's dresses and shirts:										
	Establishments with this product class primary	200	15.2	86.2	13.6	23.6	70.0	115.7	14.9	129.2	2.0
	Establishments with 75 percent specialization or more in class	191	13.8	78.3	12.4	21.5	63.1	105.8	14.0	118.2	(D)
2363	**Children's coats and suits:**										
	Entire industry	120	6.7	45.8	5.7	9.7	35.1	90.2	86.2	173.8	1.3
	Establishments with 75 percent specialization or more	105	5.5	37.0	4.6	7.7	28.6	69.9	66.5	135.0	1.0
23639	Contract work on children's coats and suits:										
	Establishments with this product class primary	34	2.1	12.4	1.8	3.0	11.1	14.2	1.8	15.9	0.1
	Establishments with 75 percent specialization or more in class	28	1.8	9.9	1.5	2.4	8.8	11.1	1.4	12.4	(D)
2369	**Children's outerwear, n.e.c.:**										
	Entire industry	363	29.3	184.9	25.1	45.4	144.1	344.4	364.2	718.8	6.7
	Establishments with 75 percent specialization or more	304	20.8	129.4	18.2	32.9	102.9	242.7	228.7	472.3	4.9
23699	Contract work on children's outerwear, n.e.c.:										
	Establishments with this product class primary	97	8.1	47.6	7.4	12.9	40.1	67.4	4.8	72.0	1.4
	Establishments with 75 percent specialization or more in class	80	7.1	40.9	6.4	11.5	34.9	58.6	3.8	62.2	1.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2341	Women's and children's underwear	1977	1,780.8	1,652.6	91.9	36.3	95	[1]1,895.4	1,652.6	[1]242.8	[1]87
		1972	1,331.9	1,239.7	79.4	12.8	94	[1]1,407.6	1,239.7	[1]167.9	[1]88
		1967	1,116.8	1,028.8	60.4	27.6	94	[1]1,193.8	1,028.8	[1]165.0	[1]86
2342	Brassieres and allied garments	1977	650.1	540.5	46.5	63.1	92	546.6	540.5	6.1	99
		1972	647.0	609.5	27.7	9.8	96	679.5	609.5	70.0	90
		1967	663.3	583.6	32.2	47.5	95	600.5	583.6	16.9	97
2351	Millinery	1977	75.1	(D)	(D)	(D)	99	74.2	(D)	(D)	(D)
		1972	58.1	56.6	.2	1.3	99	58.7	56.6	2.1	96
		1967	112.4	108.8	1.1	2.5	99	111.1	108.8	2.3	98
2352	Hats and caps, except millinery	1977	284.8	253.5	11.5	19.8	96	270.4	253.5	16.9	94
		1972	171.0	145.8	5.9	19.3	96	147.5	145.8	1.7	99
		1967	194.5	177.5	2.7	14.3	99	180.0	177.5	2.5	99
2361	Children's dresses and blouses	1977	824.7	730.3	88.8	5.6	89	[2]839.0	730.3	[2]108.7	[2]87
		1972	655.2	579.7	71.4	4.1	89	[3]673.0	579.7	[3]93.3	[3]86
		1967	496.0	449.4	37.5	9.1	92	[3]550.4	449.4	[3]101.0	[3]82
2363	Children's coats and suits	1977	173.8	148.9	22.9	2.0	87	191.5	148.9	42.6	78
		1972	188.5	170.5	17.5	.5	91	199.8	170.5	29.3	85
		1967	175.3	159.9	11.8	3.6	93	190.6	159.9	30.7	84
2369	Children's outerwear, n.e.c.	1977	718.8	589.3	113.7	15.8	84	[2]765.9	589.3	[2]176.6	[2]77
		1972	578.2	485.7	84.4	8.1	85	[3]691.3	485.7	[3]205.6	[3]70
		1967	456.2	353.8	88.4	14.0	80	[3]522.6	353.8	[3]168.8	[3]68

(D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified

[1]These figures include shipments of women's and children's knit underwear made in knitting mills (primary products of industry 2254) as well as shipments of these products cut and sewed from purchased knit cloth.

[2]For 1977, these figures do not include shipments of children's knit outerwear made in knitting mills (primary products of industry 2253). Separate Census data for girls', children's, and infants' knit sport shirts, sweaters, jackets, jerseys, pullovers, cardigans, and sacques made in knitting mills were not collected for 1977.

[3]These figures include shipments of children's knit outerwear made in knitting mills (primary products of industry 2253) as well as shipments of these products cut and sewed from purchased knit cloth.

Table 5c. **Industry-Product Analysis — Shipments by Product Class and Industry: 1977**

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Women's and children's underwear (SIC 2341)	Brassieres and allied garments (SIC 2342)	Millinery (SIC 2351)	Hats and caps, except millinery (SIC 2352)	Children's dresses and blouses (SIC 2361)	Children's coats and suits (SIC 2363)	Children's outerwear, n.e.c. (SIC 2369)	Other industries
	Total	(X)	1,780.8	650.1	75.1	284.8	824.7	173.8	718.8	(X)
	Primary products	(X)	1,652.6	540.5	(D)	253.5	730.3	148.9	589.3	(X)
	Secondary products	(X)	91.9	46.5	(D)	11.5	88.8	22.9	113.7	(X)
	Miscellaneous receipts	(X)	36.3	63.1	(D)	19.8	5.6	2.0	15.8	(X)
2341-2254-	Women's and children's underwear and nightwear	1,895.4	1,652.6	(D)	(D)	-	(D)	(D)	(D)	192.2
23412 22542	Women's, misses', children's and infants' knit and woven underwear	681.2	560.6	(D)	-	-	(D)	(D)	(D)	(D)
23413 22543	Women's, misses', children's and infants' knit and woven nightwear	902.2	798.9	14.9	(D)	-	(D)	-	10.1	(D)
23419	Contract work on women's, misses', children's and infants' underwear and nightwear	247.1	242.5	-	-	-	-	(D)	(D)	(D)
23410	Women's and children's underwear and nightwear, n.s.k.	64.9	50.7	-	-	-	-	-	(D)	(D)
2342-	Brassieres and allied garments	546.6	(D)	540.5	-	-	-	-	-	(D)
23421	Brassieres, bra-lettes, and bandeaux	346.1	(D)	341.7	-	-	-	-	-	(D)
23422	Corsets, girdles, combinations and accessories	153.3	-	(D)	-	-	-	-	-	(D)
23429	Contract work on brassieres, corsets, and allied garments	23.6	-	(D)	-	-	-	-	-	(D)
23420	Corsets and allied garments, n.s.k	23.6	-	23.6	-	-	-	-	-	-
23510	Millinery, all types	74.2	-	-	(D)	(D)	-	-	-	(D)
2352-	Hats and caps, except millinery	270.4	-	-	(D)	253.5	(D)	-	-	(D)
23521	Hats and hat bodies, except cloth and millinery	66.4	-	-	(D)	(D)	-	-	-	(D)
23522	Cloth hats and caps	176.6	-	-	-	160.3	(D)	-	-	(D)
23520	Hats and caps, except millinery, n.s.k	27.4	-	-	-	(D)	-	-	-	(D)
2361-	Children's dresses and blouses	839.1	(D)	-	-	-	730.3	(D)	53.1	43.3
23612	Children's knit sport shirts	176.1	(D)	-	-	-	136.4	(D)	26.5	8.4
23610	Children's dresses and blouses, n.s.k	528.5	(D)	-	-	-	468.2	(D)	26.3	26.3
23619	Contract work on children's dresses and shirts	134.5	-	-	-	-	125.7	-	.2	8.6
2363-	Children's coats and suits	191.5	(D)	-	-	-	9.8	148.9	(D)	25.8
23630	Children's coats, jackets, suits, and snowsuits	173.6	(D)	-	-	-	(D)	134.5	6.3	23.3
23639	Contract work on children's coats and suits	17.9	(D)	-	-	-	(D)	14.4	(D)	2.5
2369-	Children's outerwear, n.e.c	765.9	(D)	-	-	-	58.8	(D)	589.3	93.3
23690	Girls', children's, and infants' outerwear, n.e.c	685.9	(D)	-	-	-	(D)	(D)	521.1	82,6
23699	Contract work on children's outerwear, n.e.c	80.0	(D)	-	-	-	(D)	-	68.2	10.7
	Other shipments by 4-digit product group:									
2311-	Men's and boys' suits and coats	(X)	(D)	-	-	-	(D)	(D)	(D)	(X)
2321-	Men's and boys' shirts and nightwear	(X)	(D)	-	-	-	(D)	-	10.3	(X)
2322-	Men's and boys' underwear	(X)	7.1	-	-	-	(D)	-	-	(X)
2327-	Men's and boys' separate trousers	(X)	(D)	-	-	-	(D)	-	(D)	(X)
2328-	Men's and boys' work clothing	(X)	(D)	-	-	-	(D)	(D)	2.6	(X)
2329-	Men's and boys' clothing, n.e.c	(X)	-	-	-	(D)	(D)	(D)	(D)	(X)
2331-	Women's and misses' blouses and waists	(X)	(D)	-	-	-	8.3	(D)	(D)	(X)
2335-	Women's and misses' dresses	(X)	5.3	(D)	-	-	2.6	-	(D)	(X)
2337-	Women's and misses' suits and coats	(X)	(D)	-	-	-	(D)	(D)	(D)	(X)
2339-	Women's and misses' outerwear, n.e.c	(X)	5.3	(D)	(D)	(D)	1.3	(D)	11.3	(X)
2384-	Robes and dressing gowns	(X)	(D)	-	-	-	-	-	(D)	(X)
2385-	Waterproof outer garments	(X)	-	-	-	-	(D)	(D)	-	(X)
2389-	Apparel and accessories, n.e.c	(X)	(D)	1.5	-	(D)	(D)	(D)	-	(X)
2392-	Housefurnishings, n.e.c	(X)	2.8	-	-	-	-	-	(D)	(X)
	Miscellaneous receipts:									
93000 00	Contract work	(X)	10.1	(D)	.8	(D)	(D)	(D)	(D)	(X)
99980 00	Other miscellaneous receipts	(X)	1.6	(D)	(D)	(D)	(D)	(D)	(D)	(X)
99989 00	Resales	(X)	24.6	62.3	(D)	(D)	(D)	(D)	13.6	(X)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2341-	2335 Women's and misses' dresses	(D)
	2384 Robes and dressing gowns	(D)
2361-	2321 Men's and boys' shirts and nightwear	6.9
	2331 Women's and misses' blouses and waists	9.7
	2335 Women's and misses' dresses	5.1
	2339 Women's and misses' outerwear, n.e.c	(D)
2363-	2329 Men's and boys' clothing, n.e.c	(D)
	2337 Women's and misses' suits and coats	10.1
	2339 Women's and misses' outerwear, n.e.c	5.5
2369-	2328 Men's and boys' work clothing	17.8
	2337 Women's and misses' suits and coats	(D)
	2339 Women's and misses' outerwear, n.e.c	48.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
2341- -- / 2254- --	WOMEN'S AND CHILDREN'S UNDERWEAR						
	As reported in census of manufactures	.....	(X)	(X)	1,895.4	(X)	1,407.6
	As reported in Current Industrial Reports MA-23A, Apparel	.....	(X)	(X)	[3]1,568.9	(X)	[3]1,166.1
22542 -- / 23412 --	Knit and woven underwear:						
	As reported in census of manufactures	1,000 dozens	(X)	68,136	681.2	65,482	489.7
22542 00	Made in knitting mills		(X)	14,877	95.4	14,143	73.0
23412 00	Made in cut-and-sew shops		161	53,259	585.8	51,339	416.7
	As reported in Current Industrial Reports MA-23A, Apparel		(X)	67,327	680.0	67,002	522.9
	Women's, misses', and juniors':						
23412 11	Slips, excluding half slips and petticoats		(NA)	4,254	162.9	5,563	160.9
	By construction:						
23412 01	Made from knit fabric		(NA)	2,589	(X)	3,387	(X)
23412 03	Made from woven fabric		(NA)	1,379	(X)	1,998	(X)
23412 04	Construction, n.s.k		(NA)	286	(X)	178	(X)
	By fabric:						
23412 05	Made from all cotton and chiefly cotton		(NA)	468	(X)	834	(X)
23412 07	Made from all manmade and chiefly manmade fiber fabric		(NA)	3,048	(X)	4,189	(X)
23412 09	Made from fabric, except all cotton and chiefly cotton and all manmade and chiefly manmade		(NA)	434	(X)	426	(X)
23412 10	Fabric, n.s.k		(NA)	304		114	(X)
23412 12	Half slips and petticoats, excluding pettipants		(NA)	2,224	65.7	2,896	62.3
	By construction:						
23412 31	Made from knit fabric		(NA)	1,396	(X)	1,712	(X)
23412 33	Made from woven fabric		(NA)	541	(X)	718	(X)
23412 34	Construction, n.s.k		(NA)	287	(X)	466	(X)
	By fabric:						
23412 35	Made from all cotton and chiefly cotton		(NA)	51	(X)	104	(X)
23412 37	Made from all manmade and chiefly manmade fiber fabric		(NA)	1,884	(X)	2,315	(X)
23412 39	Made from fabric, except all cotton and chiefly cotton and all manmade and chiefly manmade		(NA)	289	(X)	477	(X)
23412 40	Fabric, n.s.k		(NA)				
	Underwear, excluding slips and half slips		(NA)	41,483	323.4	34,696	197.0
23412 13	Panties, including briefs, step-ins, and pettipants		(NA)	38,642	291.5	33,825	187.6
	By construction:						
23412 41	Made from knit fabric		(NA)	32,671	(X)	27,195	(X)
23412 43	Made from woven fabric		(NA)	3,531	(X)	1,492	(X)
23412 44	Construction, n.s.k		(NA)	2,440	(X)	5,138	(X)
	By fabric:						
23412 45	Made from all cotton and chiefly cotton		(NA)	6,487	(X)	3,191	(X)
23412 47	Made from all manmade and chiefly manmade fiber fabric		(NA)	29,669	(X)	26,076	(X)
23412 48	Made from fabric, except all cotton and chiefly cotton and all manmade and chiefly manmade		(NA)	2,486	(X)	267	(X)
	Fabric, n.s.k		(NA)			4,291	(X)
23412 15	Briefers, vests, bloomers, camisoles, and union suits		(NA)	1,595	31.9	871	9.4
	Girls' and children's:						
23412 21	Slips, half slips, and petticoats, excluding pettipants		(NA)	448	9.3	1,141	12.9
23412 23	Panties, drawers, and bloomers, including pettipants		(NA)	8,457	50.3	12,383	47.2
	By construction:						
23412 71	Made from knit fabric		(NA)	7,630	(X)	10,655	(X)
23412 73	Made from woven fabric		(NA)	827	(X)	288	(X)
23412 78	Construction, n.s.k		(NA)			1,440	(X)
	By fabric:						
23412 74	Made from all cotton and chiefly cotton		(NA)	5,644	(X)	6,973	(X)
23412 75	Made from fabric, except all cotton and chiefly cotton		(NA)	2,893	(X)	3,889	(X)
23412 79	Fabric, n.s.k		(NA)	1,038	(X)	1,521	(X)
23412 25	Vests and undershirts		(NA)	1,388	9.9	1,315	6.6
	Infants' and toddlers':						
23412 27	Panties		(NA)	5,137	25.1	5,463	18.9
23412 87	Slips, vests, undershirts, bands, and other underwear, except panties and drawers		(NA)	5,213	33.8	3,545	17.1
22543 -- / 23413 --	Knit and woven nightwear:						
	As reported in census of manufactures		(X)	22,102	902.2	22,956	643.4
22543 00	Made in knitting mills		(X)	*1,995	50.0	2,641	45.9
	Made in cut-and-sew shops		(X)	19,200	852.2	20,082	590.9
23413 30	Nightwear, excluding lounging pajamas		146	17,286	703.0	18,301	512.4
23413 31	Lounging pajamas		36	1,914	111.1	1,781	78.5
23413 00	Knit and woven nightwear, n.s.k	1,000 dozens	27	[4]907	38.1	[4]233	6.5

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
2341- --	WOMEN'S AND CHILDREN'S UNDERWEAR--CON.						
2254- --							
22543 --	Knit and woven nightwear--Con.						
23413 --							
	As reported in Current Industrial Reports MA-23A, Apparel...	1,000 dozens..	(X)	20,270	888.9	21,874	641.6
	Women's, misses', and juniors' nightwear.....		(NA)	13,109	681.6	13,889	479.6
23413 03	Nightgowns and sleepcoats, excluding sets with robes....		(NA)	8,281	414.8	8,532	278.0
	By construction:						
23413 21	Made from knit fabric.....		(NA)	4,551	(X)	3,337	(X)
23413 23	Made from woven fabric.....		(NA)	3,261	(X)	4,485	(X)
23413 20	Construction, n.s.k.....		(NA)	476	(X)	710	(X)
	By fabric:						
23413 25	Made from all cotton and chiefly cotton.....		(NA)	1,034	(X)	1,535	(X)
23413 27	Made from all manmade and chiefly manmade fiber fabric.....		(NA)	6,783	(X)	6,471	(X)
23413 29	Made from fabric, except all cotton and chiefly cotton and all manmade and chiefly manmade.....		(NA)	33	(X)	125	(X)
23413 30	Fabric, n.s.k.....		(NA)	431	(X)	401	(X)
23413 05	Babydoll and shortie pajamas, excluding sets with robes.		(NA)	1,106	45.1	1,366	42.0
	By construction:						
23413 32	Made from knit fabric.....		(NA)	418	(X)	536	(X)
23413 33	Made from woven fabric.....		(NA)	688	(X)	795	(X)
23413 34	Construction, n.s.k.....		(NA)	(X)	(X)	35	(X)
	By fabric:						
23413 35	Made from all cotton and chiefly cotton.....		(NA)	130	(X)	284	(X)
23413 37	Made from all manmade and chiefly manmade fiber fabric.....		(NA)				
23413 39	Made from fabric, except all cotton and chiefly cotton and all manmade and chiefly manmade.....		(NA)	1,076	(X)	983	(X)
23413 40	Fabric, n.s.k.....		(NA)	(X)	(X)	99	(X)
23413 07	Pajamas, except babydoll, shortie or sets with robes....		(NA)	1,648	87.9	1,845	63.0
	By construction:						
23413 41	Made from knit fabric.....		(NA)	716	(X)	786	(X)
23413 43	Made from woven fabric.....		(NA)	758	(X)	1,013	(X)
23413 44	Construction, n.s.k.....		(NA)	174	(X)	46	(X)
	By fabric:						
23413 45	Made from all cotton and chiefly cotton.....		(NA)	460	(X)	614	(X)
23413 47	Made from all manmade and chiefly manmade fiber fabric.....		(NA)				
23413 49	Made from fabric, except all cotton and chiefly cotton and all manmade and chiefly manmade.....		(NA)	1,118	(X)	1,188	(X)
23413 50	Fabric, n.s.k.....		(NA)	(X)	(X)	43	(X)
23413 08	Peignoir and robe sets with nightgown or pajamas.....		(NA)	1,810	114.3	1,876	81.8
	By construction:						
23413 51	Made from knit fabric.....		(NA)	1,369	(X)	1,084	(X)
23413 53	Made from woven fabric.....		(NA)	305	(X)	752	(X)
23413 54	Construction, n.s.k.....		(NA)	136	(X)	40	(X)
	By fabric:						
23413 55	Made from all cotton and chiefly cotton.....		(NA)	17	(X)	113	(X)
23413 57	Made from all manmade and chiefly manmade fiber fabric.....		(NA)				
23413 59	Made from fabric, except all cotton and chiefly cotton, and all manmade and chiefly manmade.....		(NA)	1,793	(X)	1,763	(X)
	Fabric, n.s.k.....		(NA)	(X)	(X)	(X)	(X)
23413 09	Separate bedjackets and peignoirs, excluding lounge robes		(NA)	264	19.6	270	14.8
23413 61	Made from knit fabric.....		(NA)	164	(X)	143	(X)
23413 63	Made from woven fabric.....		(NA)	100	(X)	90	(X)
23413 64	Construction, n.s.k.....		(NA)	(X)	(X)	37	(X)
	Girls', children's, infants', and toddlers' nightwear.....		(NA)	7,161	207.3	7,985	162.0
	Girls' and children's.....		(NA)	2,708	90.0	3,785	79.0
23413 11	Nightgowns.....		(NA)	1,096	38.1	1,608	36.6
23413 71	Made from woven fabric.....		(NA)	576	(X)	916	(X)
23413 73	Made from knit fabric.....		(NA)	520	(X)	408	(X)
23413 74	Construction, n.s.k.....		(NA)	(X)	(X)	284	(X)
23413 13	Pajamas.....		(NA)	1,612	51.9	2,177	42.4
23413 75	Made from woven fabric.....		(NA)	730	(X)	1,132	(X)
23413 77	Made from knit fabric.....		(NA)	882	(X)	1,009	(X)
23413 79	Construction, n.s.k.....		(NA)	(X)	(X)	36	(X)
	Infants' and toddlers'.....		(NA)	4,453	117.3	4,200	83.0
23413 15	Nightgowns, including kimonos.....		(NA)	1,100	21.8	909	12.4
23413 81	Made from woven fabric.....		(NA)	144	(X)	172	(X)
23413 83	Made from knit fabric.....		(NA)	956	(X)	679	(X)
	Construction, n.s.k.....		(NA)	(X)	(X)	58	(X)
23413 17	Pajamas.....		(NA)	801	18.8	821	16.5
23413 91	Made from woven fabric.....		(NA)	95	(X)	175	(X)
23413 93	Made from knit fabric.....	1,000 dozens..	(NA)	706	(X)	646	(X)

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972**—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
2341- --	WOMEN'S AND CHILDREN'S UNDERWEAR--CON.						
2254- --							
22543 --	Knit and woven nightwear--Con.						
23413 --							
	As reported in Current Industrial Reports MA-23A, Apparel--Con.						
	Girls', children's, infants', and toddlers' nightwear--Con.						
	Infants' and toddlers'--Con.						
23413 16	Heavyweight sleeping garments made with feet	1,000 dozens	(NA)	2,552	76.7	2,470	54.1
23413 85	Woven fabrics		(NA)				
23413 87	Knit woven fabrics	1,000 dozens	(NA)	2,552	(X)	2,470	(X)
23419 --	Contract and commission work on women's and children's underwear and nightwear:						
23419 11	Receipts for contract work on women's, misses', children's, and infants' underwear and nightwear done for others on their materials		(NA)	(X)	247.1	(X)	186.4
23410 00	Women's and children's underwear, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	52.6	(X)	70.9
23410 02	Women's and children's underwear, n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	12.3	(X)	17.2
	BRASSIERES AND ALLIED GARMENTS						
2342- --	Total		(NA)	(X)	546.6	(X)	679.5
23421 --	Brassieres:						
23421 10	As reported in the census of manufactures	1,000 dozens	56	11,483	346.1	17,006	385.1
	As reported in Current Industrial Reports MA-23J, Brassieres, Girdles, and Allied Garments:[5]						
	Domestic producers		(NA)	10,782	355.4	19,347	443.5
	Puerto Rican plants		(NA)	6,345	180.5		
	Total		(NA)	17,127	535.9	19,347	443.5
23421 21	Brassieres (with band 3 inches or more), except bralettes		(NA)	516		1,246	
23421 31	Bra-lettes		(NA)	40		25	
	Bandeaux		(NA)	16,571		18,076	
	Strap, regular		(NA)	11,338		13,191	
23421 41	$8.50 and under per dozen		(NA)	374		1,453	
23421 43	$8.51 to $12.75 per dozen		(NA)	815	535.9	1,936	443.5
23421 45	$12.76 to $15.50 per dozen		(NA)	2,328		3,222	
23421 47	$15.51 to $19.25 per dozen		(NA)	881		1,248	
23421 47	$19.26 to $30.00 per dozen		(NA)	2,230		2,750	
23421 48	$30.01 and over per dozen		(NA)	4,710		2,582	
23421 51	Strap, padded or contour lined		(NA)	4,462		4,530	
23421 61	Strapless or convertible	1,000 dozens	(NA)	771		355	
23422 --	Corsets, girdles, combinations, and accessories		(NA)	(X)	153.3	(X)	236.7
	Corsets, girdles, and combinations, except surgical corsets:						
23422 10	As reported in the census of manufactures	1,000 dozens	53	3,310	150.6	5,763	228.6
	As reported in Current Industrial Reports MA-23J, Brassieres Girdles, and Allied Garments:[5]						
	Domestic producers		(NA)	3,354	155.3	5,343	243.3
	Puerto Rican plants		(NA)	1,084	40.3		
	Total		(NA)	4,438	195.6	5,343	243.3
23422 11	Corsets (back-laced or front-laced)		(NA)	8		29	
	Girdles (with opening), including girdles made of latex		(NA)	803		1,190	
23422 21	$36.00 and under per dozen		(NA)	144		536	
23422 23	$36.01 to $65.99 per dozen		(NA)	495		486	
23422 25	$66.00 to $95.99 per dozen		(NA)	108		77	
23422 27	$96.00 and over per dozen		(NA)	57	189.4	91	243.3
	Girdles (without opening), including girdles made of latex		(NA)	3,056		3,904	
23422 32	$30.00 and under per dozen		(NA)	1,730		1,918	
23422 34	$30.01 to $51.00 per dozen		(NA)	675		925	
23422 36	$51.01 and over per dozen		(NA)	651		1,061	
23422 61	Combinations and one-piece garments (corselets)		(NA)	322		220	
38421 71	Maternity foundation garments	1,000 dozens	(NA)	169	(X)	190	
23422 81	Corset accessories		4	(X)	2.5	(X)	6.6
23422 00	Corsets, girdles, combinations, and accessories, n.s.k.		(X)	(X)	.2	(X)	1.5

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	BRASSIERES AND ALLIED GARMENTS--Con.						
23429 --	Contract and commission work on brassieres, corsets, and allied garments:						
23429 11	Receipts for contract work on brassieres, corsets, and allied garments	.....	(NA)	(X)	23.6	(X)	38.5
23420 00	Brassieres and allied garments, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	15.2	(X)	14.3
23420 02	Brassieres and allied garments, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	8.4	(X)	4.9
	MILLINERY						
2351- --	Total	.....	(NA)	(X)	74.2	(X)	58.7
23510 --	Millinery:						
23510 12	Fur-felt and wool-felt millinery	1,000 dozens..	16	**215	12.5	189	7.0
23510 41	Fabric millinery (made from all types of fabrics, including ribbon and pile fabrics)		23	**496	12.3	455	11.4
23510 93	All other millinery, including flowered millinery, straw (natural or synthetic), whimseys and miniatures, millinery made from purchased fur on the skin, and hat frames, all types	1,000 dozens..	21	**140	14.7	262	13.4
23510 00	Millinery, n.s.k., typically for establishments with 5 employees or more, (see note)	.....	(NA)	(X)	30.8	(X)	18.4
23510 02	Millinery, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	3.9	(X)	8.5
	HATS AND CAPS, EXCEPT MILLINERY						
2352- --	Total	.....	(NA)	(X)	270.5	(X)	147.5
23521 --	Hats and hat bodies, except cloth and millinery	.....	(NA)	(X)	66.5	(X)	44.4
23521 15	Finished straw hats, except harvest hats, men's and boys'	1,000 dozens..	11	425	16.6	382	9.6
23521 41	Wool-felt finished hats, except millinery		11	377	14.9	411	8.4
23521 83	Fur-felt finished hats, except millinery		13	99	19.8	287	20.1
23521 91	Hat bodies, except hat bodies finished into hats or millinery in the same plant	1,000 dozens..	8	292	12.9	255	5.4
23521 00	Hats and hat bodies, except cloth and millinery, n.s.k.	.....	(NA)	(X)	2.3	(X)	.9
23522 --	Cloth hats and caps	.....	(NA)	(X)	176.6	(X)	83.9
	Men's and boys' hats and caps:						
23522 12	Cloth hats, except uniform	1,000 dozens..	24	859	26.9	1,474	22.8
23522 15	Caps, except uniform		44	6,564	108.5	3,074	32.1
23522 17	Uniform hats and caps		22	403	15.0	763	16.6
23522 98	All other hats and caps, including harvest hats, women's uniform hats and caps, headware made from purchased knit fabric, and hats and caps made from purchased fur on the skin	1,000 dozens..	12	2,039	21.3	1,300	10.5
23522 00	Cloth hats and caps, n.s.k.	.....	(NA)	(X)	4.9	(X)	1.9
23520 00	Hats and caps, except millinery, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	21.7	(X)	11.1
23520 02	Hats and caps, except millinery, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	5.7	(X)	8.1
	CHILDREN'S DRESSES AND BLOUSES						
2361- --	Total	.....	(NA)	(X)	[6]839.1	(X)	[6]673.0
23610 --	Girls', children's, and infants' dresses, blouses, and shirts, except knit sport shirts:						
	As reported in census of manufactures	1,000 dozens..	(X)	[7]10,000	449.0	[7]11,179	395.3
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	[7]9,559	466.6	[7]11,386	418.3
23610 10	Girls', children's, and infants' dresses:						
	As reported in census of manufactures		111	[7]6,046	324.5	[7]8,337	332.7
	As reported in Current Industrial Report MA-23A, Apparel		(NA)	[7]5,529	335.3	[7]8,612	356.7
23610 21	Girls', subteen, and teenage girls' dresses		(NA)	2,316	152.6	3,375	164.8
	By type of fabric:						
23610 22	All cotton and chiefly cotton		(NA)	673	(X)	1,474	(X)
23610 24	All wool and chiefly wool		(NA)	39	(X)	49	(X)
23610 26	All manmade and chiefly manmade		(NA)	1,557	(X)	1,205	(X)
23610 77	Fabric, n.s.k.		(NA)	47	(X)	647	(X)
	By type of construction:						
23610 27	Knit fabric		(NA)	889	(X)	952	(X)
23610 28	Woven fabric		(NA)	1,329	(X)	1,789	(X)
23610 29	Construction, n.s.k.	1,000 dozens..	(NA)	98	(X)	634	(X)

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	CHILDREN'S DRESSES AND BLOUSES--Con.						
	Girls' children's and infants' dresses, blouses, and shirts, except knit sport shirts--Con.						
	Girls', children's, and infants' dresses--Con.						
23610 23	Children's dresses	1,000 dozens	(NA)	2,349	140.1	3,126	216.2
	By type of fabric:						
23610 31	All cotton and chiefly cotton		(NA)	784	(X)	1,512	(X)
23610 33	All wool and chiefly wool		(NA)	1,427	(X)	58	(X)
23610 35	All manmade and chiefly manmade		(NA)			1,287	(X)
	Fabric, n.s.k.		(NA)	138	(X)	269	(X)
	By type of construction:						
23610 36	Knit fabric		(NA)	617	(X)	718	(X)
23610 37	Woven fabric		(NA)	1,587	(X)	1,964	(X)
23610 39	Construction, n.s.k.		(NA)	145	(X)	444	(X)
23610 25	Infants' and toddlers' dresses		(NA)	1,360	50.5	2,111	65.7
23610 61	All cotton and chiefly cotton		(NA)	569	(X)	801	(X)
23610 69	Fabric, except all cotton and chiefly cotton		(NA)	791	(X)	1,117	(X)
23610 79	Fabric, n.s.k.		(NA)		(X)	193	(X)
23610 30	Girls', children's, and infants' blouses, blousettes, waists, and shirts, excluding knit shirts:						
	As reported in census of manufactures		72	[7]3,954	124.5	[7]2,812	62.6
	As reported in Current Industrial Reports MA-23A, Apparel:						
	Blouses, waists, and shirts		(NA)	[7]3,534	113.8	[7]2,774	61.6
23610 05	Girls', subteen, and teenage girls		(NA)	2,294	76.6	1,762	43.5
23610 11	All cotton and chiefly cotton		(NA)	343	(X)	408	(X)
23610 13	Fabric, except all cotton and chiefly cotton		(NA)	1,632	(X)	1,225	(X)
23610 88	Fabric, n.s.k.		(NA)	319	(X)	129	(X)
23610 14	Children's, infants', and toddlers'		(NA)	1,240	37.2	1,012	18.1
23610 15	All cotton and chiefly cotton		(NA)	708	(X)	214	(X)
23610 17	Fabric, except all cotton and chiefly cotton		(NA)	532	(X)	600	(X)
23610 89	Fabric, n.s.k.		(NA)	(X)	(X)	198	(X)
23610 90	Blouses, waists, and shirts, n.s.k.		(NA)	497	17.8	(X)	(X)
23612 --	Girls', children's, and infants' knit sport shirts:						
	As reported in census of manufactures		(X)	([8])	([8])	8,424	133.6
23612 00	Made in cut-and-sew shops (from purchased knit fabric)		42	7,718	176.1	7,244	115.3
22532 40	Made in knitting mills (from yarn knit in same establishment)		(NA)	([8])	([8])	1,180	18.3
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	(D)	(D)	9,020	142.3
	Girls', children's, and infants' knit sport shirts		(NA)	11,609	250.9	8,882	140.8
23612 13	Girls', subteen, and teenage girls' knit outerwear sport shirts, excluding sweatshirts		(NA)	1,530	43.3	1,667	38.8
23612 31	All cotton and chiefly cotton		(NA)	662	(X)	1,057	(X)
23612 33	All manmade and chiefly manmade		(NA)	868	(X)	443	(X)
23612 39	Fabric, except all cotton and chiefly cotton and all manmade and chiefly manmade		(NA)	-	(X)	165	(X)
23612 40	Fabric, n.s.k.		(NA)	-	(X)		
23612 15	Children's knit outerwear sport shirts, excluding sweatshirts		(NA)	6,367	140.0	4,143	66.0
23612 41	All cotton and chiefly cotton		(NA)	1,344	(X)	2,315	(X)
23612 43	All manmade and chiefly manmade		(NA)	4,222	(X)	1,413	(X)
23612 49	Fabric, except all cotton and chiefly cotton and all manmade and chiefly manmade		(NA)	-	(X)		
23612 50	Fabric, n.s.k.	1,000 dozens	(NA)	801	(X)	415	(X)
23612 17	Infants' and toddlers' knit outerwear sport shirts, excluding sweatshirts	1,000 dozens	(NA)	3,712	67.6	2,934	34.5
23612 51	All cotton and chiefly cotton		(NA)	940	(X)	1,802	(X)
23612 53	All manmade and chiefly manmade		(NA)	2,772	(X)	1,132	(X)
23612 59	Fabric, except all cotton and chiefly cotton and all manmade and chiefly manmade		(NA)	-	-		
23612 60	Fabric, n.s.k.		(NA)	-	(X)		
23612 19	Girls', children's, infants', and toddlers' sweatshirts	1,000 dozens	(NA)	179	4.0	138	1.5
23619 --	Contract and commission work on girls', children's, and infants' dresses, blouses, and shirts:						
23619 13	Receipts for contract work on girls', children's and infants' dresses, blouses, waists, and shirts		(NA)	(X)	134.5	(X)	104.5
23610 00	Girls', children's, and infants' dresses, blouses, waists, and shirts, except knit shirts made in knitting mills, n.s.k., typically for establishments with 10 employees or more (see note)	1,000 dozens	(NA)	[4]1,766	66.9	[4]962	30.7
23610 02	Girls', children's and infants' dresses, blouses, waists, and shirts, except knit shirts made in knitting mills, n.s.k., typically for establishments with less than 10 employees (see note)	1,000 dozens	(NA)	[4]332	12.6	[4]207	8.9

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	CHILDREN'S COATS AND SUITS						
2363- --	Total	.....	(NA)	(X)	191.5	(X)	199.8
23630 --	Girls', children's, and infants' coats, jackets, suits, snowsuits, and coat-and-legging sets, excluding wash suits:						
	As reported in census of manufactures	1,000 dozens..	85	**1,967	[9]171.5	[10]2,146	169.1
	As reported in Current Industrial Reports MA-23A, Apparel:						
	Girls', children's, and infants' coats, suits, snowsuits, and coat-and-legging sets		(NA)	1,943	172.8	2,238	[9]176.7
	Coats, excluding coat-and-legging sets		(NA)	476	64.2	743	97.9
23630 13	Girls', subteen, and teenage girls' coats		(NA)	203	34.8	308	56.6
23630 31	All wool and chiefly wool		(NA)	46	(X)	75	(X)
23630 33	Fabric, except all wool and chiefly wool		(NA)	157	(X)	144	(X)
23630 39	Fabric, n.s.k.		(NA)	-	(X)	89	(X)
23630 12	Children's and infants' coats		(NA)	273	29.4	435	41.3
23630 32	All wool and chiefly wool		(NA)	17	(X)	66	(X)
23630 38	Fabric, except all wool and chiefly wool		(NA)	256	(X)	369	(X)
23630 42	Girls', children's, infants', and toddlers' coat-and-leggings and coat-and-snow-pants sets and ski and snowsuits		(NA)	245	30.7	485	28.5
23630 04	Girls, children's, and infants' suits		(NA)	592	31.0	496	20.1
23630 28	Girls', children's, infants', and toddlers' jackets	1,000 dozens..	(NA)	630	46.9	514	30.2
23639 --	Contract and commission work on children's and infants' coats and suits:						
23639 11	Receipts for contract work on girls', teenage girls', children's, and infants' coats, snowsuits, coat-and-legging sets, and suits	.....	(NA)	(X)	17.9	(X)	27.3
23630 02	Children's coats and suits, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	2.1	(X)	3.4
	CHILDREN'S OUTERWEAR, N.E.C.[11]						
2369- -- 2253- --	Total	.....	(NA)	(X)	[12]765.9	(X)	[12]691.3
23690 --	Girls', children's, and infants' outerwear, n.e.c.:						
23690 40	Play garments, including playsuits, playshorts, dungarees, jeans, slacks, halter tops, creepers, and rompers:						
	As reported in census of manufactures	1,000 dozens..	112	*15,000	515.0	16,631	375.7
	As reported in Current Industrial Reports MA-23A, Apparel[6].		(NA)	15,976	544.3	17,105	386.1
23690 22	Girls', subteen, and teenage girls' slacks		(NA)	1,735	83.5	1,521	52.7
23690 25	All cotton and chiefly cotton		(NA)	533	(X)	661	(X)
23690 29	Fabric, except all cotton and chiefly cotton		(NA)	896	(X)	743	(X)
23690 96	Fabric, n.s.k.		(NA)	306	(X)	117	(X)
23690 41	Girls', subteen, and teenage girls' dungarees and jeans		(NA)	842	46.3	413	14.4
23690 43	Girls', subteen, and teenage girls' play garments, including playsuits, shorts, halter tops, etc		(NA)	(NA)	(X)	950	28.0
23690 45	Children's dungarees and jeans		(NA)	1,940	68.8	1,634	32.8
23690 46	Children's slacks and shorts		(NA)	([13])	([13])	4,408	91.6
23690 51	All cotton and chiefly cotton		(NA)	([13])	(X)	2,633	(X)
23690 53	Fabric, except all cotton and chiefly cotton		(NA)	([13])	(X)	1,686	(X)
23690 59	Fabric, n.s.k.		(NA)	([13])	(X)	89	(X)
23690 48	Children's play garments, including playsuits and halter tops		(NA)	2,525	63.0	2,731	49.5
23690 55	All cotton and chiefly cotton		(NA)	1,332	(X)	1,911	(X)
23690 57	Fabric, except all cotton and chiefly cotton		(NA)	1,258	(X)	717	(X)
23690 58	Fabric, n.s.k.		(NA)	-	(X)	103	(X)
23690 84	Infants' and toddlers' play garments, including creepers and rompers		(NA)	5,207	165.5	5,448	117.1
22531 pt 23690 pt	Sweaters, jackets, jerseys, pullovers, cardigans, and sacques:						
	As reported in census of manufactures		(NA)	([14])	([14])	1,387	44.1
	Made in knitting mills		(NA)	([14])	([14])	914	30.6
23690 70	Made in cut-and-sew shops		6	**180	9.3	473	13.6
	As reported in Current Industrial Reports MA-23A, Apparel[6].		(NA)	1,499	58.9	1,460	44.0
22531 13	Girls', subteen, and teenage girls' sweaters		(NA)	606	27.1	586	20.7
22531 61	All wool and chiefly wool		(NA)			24	(X)
22531 69	All cotton and chiefly cotton		(NA)	606	(X)		
22531 63	All manmade and chiefly manmade fibers		(NA)			524	(X)
....	Fabric, n.s.k.		(NA)			38	(X)
22531 14	Children's, infants', and toddlers' sweaters		(NA)	893	31.8	874	23.3
22531 71	All wool and chiefly wool		(NA)				
22531 73	All manmade and chiefly manmade fibers		(NA)	893	(X)	874	(X)
22531 79	All cotton and chiefly cotton		(NA)				
	Fabric, n.s.k.	1,000 dozens..	(NA)				

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity	Value (million dollars)	Quantity	Value (million dollars)
	CHILDREN'S OUTERWEAR, N.E.C.--Con.						
	Girls', children's and infants' outerwear, n.e.c.--Con.						
23690 92	Other outerwear, including skirts, robes (tufted, terry cloth, quilted), headwear, neckwear, buntings, swimwear, etc:						
	As reported in census of manufactures	1,000 dozens	(NA)	4,406	159.9	3,863	123.1
22533 60	Made in knitting mills		22	*2,535	78.8	1,080	37.7
23690 92	Made in cut-and-sew shops		62	*1,871	81.1	2,783	85.4
	As reported in Current Industrial Reports MA-23A, Apparel[6]		(NA)	1,389	67.1	1,700	55.0
23690 03	Girls', children's, and infants' skirts		(NA)	494	29.9	706	25.3
23690 37	All cotton and chiefly cotton		(NA)	106	(X)	195	(X)
23690 38	All wool and chiefly wool		(NA)	21	(X)		
23690 39	Fabric, except all cotton and chiefly cotton, and all wool and chiefly wool		(NA)	367	(X)	465	(X)
23690 95	Fabric, n.s.k.		(NA)	-	(X)	46	(X)
23690 64	Girls', children's, and infants' swimsuits		(NA)	895	37.2	994	29.7
23690 66	Knit fabric		(NA)	423	(X)	416	(X)
23690 67	Woven fabric		(NA)	472	(X)	428	(X)
23690 98	Construction, n.s.k.	1,000 dozens	(NA)	-	(X)	150	(X)
23699 --	Contract and commission work on children's and infants' outerwear, n.e.c.:						
23699 11	Receipts for contract work on children's outerwear, n.e.c., done for others on their materials		(NA)	(X)	80.0	(X)	77.6
23690 00	Girls', children's, and infants' outerwear, n.e.c., n.s.k., typically for establishments with 10 employees or more (see note)		(NA)	(X)	73.3	(X)	57.7
23690 02	Girls', children's, and infants' outerwear, n.e.c., n.s.k., typically for establishments with less than 10 employees (see note)		(NA)	(X)	7.2	(X)	13.1

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]Not comparable. Does not include receipts for contract work, which amounted to 247.1 million for 1977 and $186.4 million for 1972.

[4]Quantity was estimated based on quantity-value relationship of other products.

[5]Shipments of brassieres, corsets, and girdles produced in affilated Puerto Rican plants of U.S. companies are reported in CIR MA-23J, but not in census of manufactures. Thus CIR data are not comparable with census data.

[6]1977 figure covers only products made in cut-and-sew shops; 1972 figure also includes products made in knitting mills. The comparable 1972 figure including only cut-and-sew shops would be $654.7 million.

[7]Census figure represents quantity of shipments, whereas CIR figure represents quantity of production.

[8]Census data for children's and infants' knit sport shirts made in knitting mills are not available. In addition, Census data include only shirts made from cut-and-sew shops while CIR data also include shirts made from knitting mills. For comparability, see the following table:

1977 product code	Product description	1977 Census of Manufactures		1977 CIR MA-23A, Apparel	
		Quantity of shipments (1,000 dozens)	Value of shipments (million dollars)	Quantity of production (1,000 dozens)	Value of shipments (million dollars)
2321 pt. 2331 pt. 2361 pt.	Knit outerwear sport shirts	63,775	2,002.3	63,893	1,988.8
2253 pt.					
22532 25	Made in knitting mills	18,574	518.1		
	Made in cut-and-sew shops	45,201	1,484.2		
23212 00	Men's and boys'	27,874	809.0	63,893	1,988.8
23312 00	Women's and misses'	9,662	499.1		
23612 00	Children's and infants'	7,718	176.1		

[9]Does not include receipts for contract work.

[10]10 to 29 percent of quantity was estimated.

[11]Establishments primarily engaged in the manufacture of girls', children's, and infants' dresses, blouses, and waists are classified in industry 2361, and coats and suits in industry 2363.

[12]For 1977, figure covers only products made in cut-and-sew shops; 1972 figure also includes products made in knitting mills.

[13]Separate data on children's shorts are not available for 1977. Total production and value of shipments of children's slacks and shorts for 1977 were 3,153 thousand dozen and $93.5 million, respectively.

[14]Census data for girls', children's, and infants' sweaters, jackets, jerseys, pullovers, cardigans, and sacques made in knitting mills were not collected for 1977. CIR data includes sweaters, etc., made in cut-in-sew shops and made in knitting mills. For comparability, see following table:

1977 product code	Product description	1977 Census of Manufactures		1977 CIR MA-23A, Apparel	
		Quantity of shipments (1,000 dozens)	Value of shipments (million dollars)	Quantity of production (1,000 dozens)	Value of shipments (million dollars)
2253 pt. 2329 pt. 2339 pt. 2369 pt.	Knit sweaters, jerseys, and jackets, etc.....	12,000	766.7	11,952	797.4
22531 35	Made in knitting mills.....	9,143	555.5		
	Made in cut-and-sew shops.....	2,875	211.2		
23292 60	Men's and boys'.....	324	21.6	11,952	797.4
23397 30	Women's and misses'.....	2,353	180.3		
23690 70	Children's and infants'.....	180	9.3		

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
23412, WOMEN'S, MISSES', CHILDREN'S AND INFANTS' UNDERWEAR		
United States	585.8	416.7
New England Division:		
Massachusetts	4.8	BB
Middle Atlantic Division:		
New York	142.1	147.1
New Jersey	34.4	9.8
Pennsylvania	49.7	30.2
East North Central Division:		
Illinois	7.2	CC
South Atlantic Division:		
North Carolina	59.8	53.7
Georgia	60.0	38.2
East South Central Division:		
Mississippi	33.4	24.4
West South Central Division:		
Oklahoma	12.6	CC
Texas	15.0	2.9
Pacific Division:		
California	28.1	CC
23413, WOMEN'S, MISSES', CHILDREN'S AND INFANTS' NIGHTWEAR		
United States	852.2	597.5
New England Division:		
Massachusetts	21.6	EE
Middle Atlantic Division:		
New York	206.6	164.1
New Jersey	20.2	22.1
Pennsylvania	53.8	78.2
South Atlantic Division:		
North Carolina	114.8	67.2
South Carolina	49.5	FF
Georgia	21.6	17.5
East South Central Division:		
Mississippi	19.9	CC
West South Central Division:		
Arkansas	19.4	(NA)
Oklahoma	7.7	CC
Texas	39.6	EE
Pacific Division:		
California	42.4	FF
23419, CONTRACT WORK ON WOMEN'S, MISSES', CHILDREN'S, AND INFANTS' UNDERWEAR AND NIGHTWEAR		
United States	247.1	(NA)
New England Division:		
Massachusetts	7.4	(NA)
Middle Atlantic Division:		
New York	20.2	(NA)
New Jersey	3.6	(NA)
Pennsylvania	33.4	(NA)
South Atlantic Division:		
Virginia	11.0	(NA)
North Carolina	31.5	(NA)
Georgia	12.2	(NA)
Pacific Division:		
California	2.3	(NA)
23421, BRASSIERES, BRA-LETTES, AND BANDEAUX		
United States	346.1	385.1
New England Division:		
Connecticut	3.7	BB
Middle Atlantic Division:		
New York	81.9	120.5
Pennsylvania	4.5	1.1
South Atlantic Division:		
Georgia	88.0	FF
Pacific Division:		
California	27.0	EE
23422, CORSETS, GIRDLES, COMBINATIONS AND ACCESSORIES		
United States	153.3	236.7
New England Division:		
Connecticut	9.7	9.8
Middle Atlantic Division:		
New York	53.4	90.6
Pennsylvania	17.0	8.3
West South Central Division:		
Texas	7.9	CC
Pacific Division:		
California	8.0	12.7
23429, CONTRACT WORK ON BRASSIERES, CORSETS, AND ALLIED GARMENTS		
United States	23.6	(NA)
Middle Atlantic Division:		
Pennsylvania	7.5	(NA)
23521, HATS AND HAT BODIES, EXCEPT CLOTH AND MILLINERY		
United States	66.4	44.4
Middle Atlantic Division:		
New York	4.2	BB
Pennsylvania	13.4	9.8
West South Central Division:		
Texas	25.6	EE
23522, CLOTH HATS AND CAPS		
United States	176.6	83.9
Middle Atlantic Division:		
New York	22.8	13.3
New Jersey	2.6	1.7
Pennsylvania	20.2	4.5
East North Central Division:		
Wisconsin	5.4	AA
West North Central Division:		
Minnesota	2.6	AA
Missouri	48.9	22.3
South Atlantic Division:		
Virginia	11.3	4.7
West South Central Division:		
Texas	9.1	9.9
Pacific Division:		
California	2.2	BB

See footnotes at end of table.

Table 6b. **Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972**—Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
23612, CHILDREN'S KNIT SPORT SHIRTS		
United States	176.1	115.3
Middle Atlantic Division:		
New York	27.0	28.6
Pennsylvania	6.4	BB
South Atlantic Division:		
North Carolina	23.7	EE
Pacific Division:		
California	12.5	(NA)
23619, CONTRACT WORK ON CHILDREN'S DRESSES AND SHIRTS		
United States	134.5	(NA)
Middle Atlantic Division:		
New York	12.4	(NA)
New Jersey	5.9	(NA)
Pennsylvania	28.5	(NA)
South Atlantic Division:		
Virginia	20.0	(NA)
North Carolina	19.4	(NA)
South Carolina	13.9	(NA)
Florida	2.3	(NA)
Pacific Division:		
California	9.0	(NA)
23639, CONTRACT WORK ON CHILDREN'S COATS AND SUITS		
United States	17.9	(NA)
Middle Atlantic Division:		
New Jersey	4.2	(NA)
Pennsylvania	3.0	(NA)
South Atlantic Division:		
North Carolina	2.3	(NA)
Georgia	2.1	(NA)
23699, CONTRACT WORK ON CHILDREN'S OUTERWEAR, N.E.C.		
United States	80.0	(NA)
New England Division:		
Massachusetts	10.0	(NA)
Middle Atlantic Division:		
New York	9.7	(NA)
New Jersey	6.8	(NA)
Pennsylvania	6.2	(NA)
South Atlantic Division:		
Virginia	4.0	(NA)
North Carolina	16.6	(NA)
Pacific Division:		
California	4.0	(NA)

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available. N.E.C. Not elsewhere classified.

Table 6c. **Product Classes — Value Shipped by All Producers: 1963, 1967, and 1972 to 1977**

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2341-	Women's and children's underwear[2]	1,750.0	1,509.7	1,390.8	1,334.7	1,420.5	1,288.7	1,071.8	941.4
23412	Women's, misses', children's and infants' underwear[2]	585.8	485.5	433.3	422.7	483.9	416.7	487.1	462.3
23413	Women's, misses', children's and infants nightwear[2]	852.2	687.7	657.2	633.1	653.5	597.5	380.2	350.0
23419	Contract work on women's, misses', children's, and infants' underwear and nightwear	247.1	293.5	r266.9	235.3	206.0	186.4	126.6	107.2
23410	Women's and children's underwear and nightwear, n.s.k.	64.9	(43.0)	r(33.4)	(43.6)	77.1	88.1	77.9	22.0
2342-	Brassieres and allied garments	546.6	556.4	483.0	508.2	637.3	679.5	600.5	565.9
23421	Brassieres, bra-lettes, and bandeaux	346.1	328.1	263.5	270.8	357.4	385.1	261.3	285.8
23422	Corsets, girdles, combinations and accessories	153.3	177.8	165.8	184.4	222.2	236.7	279.5	238.4
23429	Contract work on brassieres, corsets, and allied garments	23.6	(44.4)	r(38.7)	41.2	37.6	38.5	38.1	33.9
23420	Corsets and allied garments, n.s.k.	23.6	(S)	r(15.0)	(11.8)	20.1	19.2	21.6	7.9
23510	Millinery, all types	74.2	(77.3)	r(66.8)	40.1	63.7	58.7	111.1	159.5
2352-	Hats and caps, except millinery	270.4	(217.7)	r214.1	208.6	153.5	147.5	180.0	160.7
23521	Hats and hat bodies, except cloth and millinery	66.4	(75.5)	(69.5)	76.6	51.3	44.4	66.9	80.9
23522	Cloth hats and caps	176.6	(157.8)	(153.9)	(123.3)	82.5	83.9	98.7	71.9
23520	Hats and caps, except millinery, n.s.k.	27.4	(3)	(3)	(8.7)	19.7	19.2	14.4	7.9
2361-	Children's dresses and blouses[2]	839.1	624.5	r567.7	592.5	678.8	654.7	522.0	450.2
23612	Children's knit sport shirts[2]	176.1	151.6	r136.6	134.1	136.8	115.3	55.1	43.0
23610	Children's dresses and blouses, n.s.k.	528.5	(395.1)	r(345.7)	411.5	436.3	434.9	386.3	345.8
23619	Contract work on children's dresses and shirts	134.5	(77.8)	r(85.4)	(46.9)	105.7	104.5	80.6	61.4
2363-	Children's coats and suits	191.5	234.3	r227.5	230.4	167.4	199.8	190.6	172.4
23630	Children's coats, jackets, suits, and snowsuits	173.6	(207.5)	(196.9)	(195.1)	139.8	172.5	168.6	148.7
23639	Contract work on children's coats and suits	17.9	26.8	r(30.6)	(35.3)	(27.6)	27.3	22.0	23.7
2369-	Children's outerwear, n.e.c.[2]	765.9	713.0	679.7	612.9	630.7	623.1	450.8	402.8
23690	Girls', children's, and infants' outerwear, n.e.c.[2]	685.9	622.9	598.3	528.6	537.3	545.5	393.7	356.8
23699	Contract work on children's outerwear, n.e.c.	80.0	(90.1)	(81.4)	84.3	93.4	77.6	57.1	46.0

(NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. rRevised. (S) Withheld because estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]For purposes of comparability with prior year's annual survey of manufactures data, value of shipments of knitting mills (industry group 225) has been excluded. (See tables 5b and 6a.)

[3]Withheld because the estimated value derived for this not specified by kind (N.S.K.) code is a negative. This is a consequence of using the difference method of estimation (see Description of Survey Sample in the Introduction) and of improved establishment reporting that resulted in changing the classification of its shipments from the N.S.K. code in the 1972 Census to specified 5-digit product classes in the current year. The 4-digit total shown for this group of product classes is considered to be best estimate of the total, even though it is smaller than the sum of the individual 5-digit product class values.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2341, WOMEN'S AND CHILDREN'S UNDERWEAR					
	Materials, containers, and supplies		(X)	659.8	(X)	503.3
220129	Broad woven fabrics	Mil. lin. yd.	(S)	142.0	185.8	111.4
225078	Purchased knitted fabrics, including transfers from other plants of same company	Million lb.	**108.3	234.1	173.4	248.6
970099	All other materials and components, parts, containers, and supplies		(X)	166.0	(X)	74.3
971000	Materials, containers, and supplies, n.s.k.[2]		(X)	117.7	(X)	69.0
	INDUSTRY 2342, BRASSIERES AND ALLIED GARMENTS					
	Materials, containers, and supplies		(X)	225.1	(X)	230.4
220129	Broad woven fabrics	Mil. lin. yd.	(S)	66.9	109.3	96.0
225078	Purchased knitted fabrics, including transfers from other plants of your company	Million lb.	(S)	87.6	[3]26.4	49.7
970099	All other materials and components, parts, containers, and supplies		(X)	43.3	(X)	45.2
971000	Materials, containers, and supplies, n.s.k.[2]		(X)	27.3	(X)	39.5
	INDUSTRY 2361, CHILDREN'S DRESSES AND BLOUSES					
	Materials, containers, and supplies		(X)	273.8	(X)	210.7
220129	Broad woven fabrics	Mil. lin. yd.	(S)	76.4	82.5	61.2
225078	Purchased knitted fabrics, including transfers from other plants of same company	Million lb.	*24.0	69.9	52.8	83.8
970099	All other materials and components, parts, containers, and supplies		(X)	39.1	(X)	20.6
971000	Materials, containers, and supplies, n.s.k.[2]		(X)	88.4	(X)	45.1
	INDUSTRY 2363, CHILDREN'S COATS AND SUITS					
	Materials, parts, containers, and supplies		(X)	67.3	(X)	74.6
220129	Broad woven fabrics	Mil. lin. yd.	**28.0	21.9	[3]22.7	27.3
225078	Purchased knitted fabrics, including transfers from other plants of same company	Million lb.	(S)	11.3	[3]18.6	15.1
970099	All other materials and components, parts, containers, and supplies		(X)	8.9	(X)	8.7
971000	Materials, parts, containers, and supplies, n.s.k.[2]		(X)	25.2	(X)	23.5
	INDUSTRY 2369, CHILDREN'S OUTERWEAR, N.E.C.					
	Materials, containers, and supplies		(X)	298.6	(X)	222.0
220129	Broad woven fabrics	Mil. lin. yd.	**99.1	128.8	[3]98.3	87.5
225078	Purchased knitted fabrics, including transfers from other plants of same company	Million lb.	(S)	52.1	[3]38.1	63.0
970099	All other materials and components, parts, containers, and supplies		(X)	52.6	(X)	21.3
971000	Materials, containers, and supplies, n.s.k.[2]		(X)	65.1	(X)	50.2

N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[3]10 to 30 percent of quantity was estimated.

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DESCRIPTION OF INDUSTRIES

MISCELLANEOUS APPAREL AND ACCESSORIES

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

2371 Fur Goods
2381 Fabric Dress and Work Gloves
2384 Robes and Dressing Gowns
2385 Waterproof Outer Garments
2386 Leather and Sheep Lined Clothing
2387 Apparel Belts
2389 Apparel and Accessories, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2371, FUR GOODS

This industry comprises establishments primarily engaged in the manufacture of fur coats, and other garments, accessories, and trimmings made of fur. Establishments primarily engaged in the manufacture of sheep lined clothing are classified in industry 2386, and those engaged in dyeing and dressing of furs in industry 3999.

The total value of shipments for establishments classified in the Fur Goods industry amounted to $383 million in 1977, an increase of 74 percent from 1972. The value of shipments of products classified as primary to the industry was $359 million, an increase of 68 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $113 million in 1977, was 31 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 4.0 thousand employees, a decrease of 15 percent from 1972. The leading State in employment was New York, accounting for approximately 85 percent of the industry's 1977 employment. This same State was in the forefront for 1972 when it accounted for approximately 85 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 29 percent of total value of shipments.

INDUSTRY 2381, FABRIC DRESS AND WORK GLOVES

This industry comprises establishments primarily engaged in the manufacture of dress, semidress, and work gloves and mittens, cut and sewed from purchased woven or knit fabric, or these materials combined with leather or plastic. Knitting mills primarily engaged in the manufacture of gloves and mittens are classified in industry 2259. Establishments primarily engaged in the manufacture of leather gloves are classified in industry 3151, those manufacturing rubber gloves in industry 3069, and plastic gloves in industry 3079.

The total value of shipments for establishments classified in the Fabric Dress and Work Gloves industry amounted to $313 million in 1977, an increase of 57 percent from 1972. The value of shipments of products classified as primary to the industry was $305 million, an increase of 60 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $161 million in 1977, was 61 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 10.9 thousand employees, a decrease of 8 percent from 1972. The leading States in employment were North Carolina, Mississippi, Ohio, and Alabama, accounting for approximately 55 percent of the

industry's 1977 employment. Data for Mississippi and Ohio have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The 1977 census obtained data on shipments of fabric dress and work gloves only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the shipments of fabric dress and work gloves are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-23D, Gloves and Mittens. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 8 percent of total value of shipments.

INDUSTRY 2384, ROBES AND DRESSING GOWNS

This industry comprises establishments primarily engaged in the manufacture of men's and women's robes and dressing gowns.

The total value of shipments for establishments classified in the Robes and Dressing Gowns industry amounted to $294 million in 1977, an increase of 44 percent from 1972. The value of shipments of products classified as primary to the industry was $243 million, an increase of 43 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $142 million in 1977, was 53 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 9.6 thousand employees, a decrease of 4 percent from 1972. The leading States in employment were New York and South Carolina, accounting for approximately 50 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 12 percent of total value of shipments.

INDUSTRY 2385, WATERPROOF OUTER GARMENTS

This industry comprises establishments primarily engaged in the manufacture of raincoats from purchased rubberized fabrics and other waterproof outer garments made from such material as pliofilm and cellophane. Establishments primarily engaged in the manufacture of oiled fabric work garments are classified in industry 2328, and those manufacturing vulcanized rubber garments and garments made from rubberized fabrics produced in the same establishment in industry 3069.

The total value of shipments for establishments classified in the Waterproof Outer Garments industry amounted to $350 million in 1977, an increase of 5 percent from 1972. The value of shipments of products classified as primary to the industry was $339 million, an increase of 5 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Valued added by manufacture, at $194 million in 1977, was 15 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 12.0 thousand employees, a decrease of 22 percent from 1972. The leading States in employment were Maryland, New York, New Jersey, and Georgia, accounting for approximately 60 percent of the industry's 1977 employment.

The 1977 census obtained data on shipments of waterproof outer garments only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the shipments of waterproof outer garments are reported annually in the Census Bureau's Current Industrial Reports (CIR)MA-23A, Apparel. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2386, LEATHER AND SHEEP LINED CLOTHING

This industry comprises establishments primarily engaged in the manufacture of leather and sheep lined garments. Establishments primarily engaged in the manufacture of leather gloves and mittens are classified in industry 3151, and fur garments in industry 2371.

The total value of shipments for establishments classified in the Leather and Sheep Lined Clothing industry amounted to $214 million in 1977, an increase of 24 percent from 1972. The value of shipments of products classified as primary to the industry was $211 million, an increase of 21 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $95 million in 1977, was 16 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 6.7 thousand employees, a decrease of 4 percent from 1972. The leading States in employment were New York, New Jersey, California, and Massachusetts, accounting for approximately 70 percent of the industry's 1977 employment. These same States were in the forefront for 1972

when they accounted for approximately 65 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 11 percent of total value of shipments.

INDUSTRY 2387, APPAREL BELTS

This industry comprises establishments primarily engaged in the manufacture of men's and women's apparel belts, regardless of material.

The total value of shipments for establishments classified in the Apparel Belts industry amounted to $287 million in 1977, an increase of 11 percent from 1972. The value of shipments of products classified as primary to the industry was $244 million, an increase of 4 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $150 million in 1977, was 13 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 9.4 thousand employees, a decrease of 9 percent from 1972. The leading States in employment were New York, Texas, Connecticut, and California, accounting for approximately 65 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 9 percent of total value of shipments.

INDUSTRY 2389, APPAREL AND ACCESSORIES, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of suspenders, garters, handkerchiefs, and other apparel, not elsewhere classified, such as academic caps and gowns, vestments, and theatrical costumes.

The total value of shipments for establishments classified in the Apparel and Accessories, N.E.C. industry amounted to $206 million in 1977, an increase of 76 percent from 1972. The value of shipments of products classified as primary to the industry was $176 million, an increase of 43 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $110 million in 1977, was 17 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 8.1 thousand employees, an increase of 21 percent from 1972. The leading States in employment were New York, Pennsylvania, Illinois, and California, accounting for approximately 65 percent of the industry's 1977 employment. Data for Illinois have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The 1977 census obtained data on shipments of apparel and accessories, n.e.c. only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the shipments of apparel and accessories, n.e.c. are reported annually in the census Bureau's Current Industrial Reports (CIR) MA-23A, Apparel. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 7 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2371, FUR GOODS																
1977 Census--	620	620	48	4.0	51.5	3.2	5.1	36.2	112.8	273.3	383.4	0.5	(NA)	46.5	100	99
1976 ASM[5] ---	(NA)	(NA)	(NA)	3.3	35.4	2.7	4.5	25.6	74.8	166.6	246.4	0.9	(S)	27.8	(NA)	(NA)
1975 ASM[5] ---	(NA)	(NA)	(NA)	4.1	37.8	3.5	5.3	28.4	86.3	162.3	246.0	2.7	(S)	33.9	(NA)	(NA)
1974 ASM[5] ---	(NA)	(NA)	(NA)	4.3	37.6	3.6	5.8	27.9	83.4	133.2	213.6	0.6	(S)	22.9	(NA)	(NA)
1973 ASM[5] ---	(NA)	(NA)	(NA)	3.8	33.5	3.2	5.5	26.0	63.3	140.0	208.9	1.4	(S)	25.8	(NA)	(NA)
1972 Census--	796	797	48	4.7	41.2	4.0	6.7	31.1	86.2	135.5	220.0	1.1	(S)	27.5	99	99
1971 ASM----	(NA)	(NA)	(NA)	4.8	38.0	4.0	6.8	28.1	63.8	113.4	183.9	0.7	(S)	26.8	(NA)	(NA)
1970 ASM[5] ---	(NA)	(NA)	(NA)	7.0	53.8	6.2	10.2	42.9	112.2	162.2	272.2	1.6	(S)	34.1	(NA)	(NA)
1969 ASM[5] ---	(NA)	(NA)	(NA)	8.1	60.3	7.0	12.8	49.2	119.5	195.6	321.7	1.9	(S)	34.2	(NA)	(NA)
1968 ASM[5] ---	(NA)	(NA)	(NA)	7.9	60.6	6.8	11.9	48.2	115.6	203.6	318.8	3.8	(S)	33.8	(NA)	(NA)
1967 Census--	1 304	1 304	88	8.5	59.4	7.3	13.2	47.4	117.2	215.7	333.2	1.1	(S)	33.3	99	100
1966 ASM[6] ---	(NA)	(NA)	(NA)	9.6	62.2	8.1	14.5	46.2	127.6	241.7	365.1	1.0	(NA)	44.5	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	9.4	60.5	8.2	14.9	47.4	118.4	245.4	360.5	1.0	(NA)	44.1	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	9.8	62.5	7.9	15.1	49.1	103.6	229.9	336.8	0.3	9.6	39.3	(NA)	(NA)
1963 Census--	1 591	1 591	94	9.3	56.0	7.7	14.5	45.6	110.6	225.2	334.4	1.2	9.4	42.9	99	100
INDUSTRY 2381, FABRIC DRESS AND WORK GLOVES																
1977 Census--	100	132	92	10.9	69.0	9.9	18.0	56.3	160.9	153.2	312.4	3.5	(NA)	42.1	91	84
1976 ASM[5] ---	(NA)	(NA)	(NA)	9.9	63.2	8.9	16.2	50.9	123.5	156.5	271.6	4.4	38.9	52.3	(NA)	(NA)
1975 ASM[5] ---	(NA)	(NA)	(NA)	8.8	54.3	7.9	13.9	42.9	105.5	134.5	243.6	4.8	34.8	41.2	(NA)	(NA)
1974 ASM[5] ---	(NA)	(NA)	(NA)	12.2	64.7	11.0	20.4	52.6	142.3	152.2	292.4	3.2	31.3	39.0	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	11.7	55.5	10.6	19.4	45.9	107.9	106.8	213.3	2.3	24.9	32.4	(NA)	(NA)
1972 Census--	105	137	94	11.9	56.3	10.9	20.2	47.4	100.3	99.6	198.8	1.9	23.6	30.4	93	86
1971 ASM----	(NA)	(NA)	(NA)	12.0	50.9	10.9	19.9	42.8	84.3	84.2	169.8	1.6	24.1	26.8	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	14.5	58.7	13.3	24.2	50.2	92.0	91.6	185.4	2.1	24.4	29.1	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	15.3	62.2	14.2	25.9	53.8	110.3	114.9	225.4	1.9	27.3	32.5	(NA)	(NA)
1968 ASM[6] ---	(NA)	(NA)	(NA)	14.8	58.2	13.8	25.5	48.7	98.4	107.1	202.0	1.5	26.0	31.4	(NA)	(NA)
1967 Census--	140	172	110	14.0	48.7	13.0	24.5	41.8	86.5	94.8	176.6	1.8	24.1	25.8	91	87
1966 ASM----	(NA)	(NA)	(NA)	15.9	53.4	14.4	27.8	43.3	93.8	114.0	205.9	1.9	(NA)	30.8	(NA)	(NA)
1965 ASM[6] ---	(NA)	(NA)	(NA)	15.0	46.8	13.7	26.4	39.1	89.2	97.2	184.3	1.4	(NA)	28.6	(NA)	(NA)
1964 ASM[5] ---	(NA)	(NA)	(NA)	12.6	38.3	11.7	21.2	33.0	60.9	83.5	155.8	2.6	16.0	24.6	(NA)	(NA)
1963 Census[6] -	170	197	103	12.8	36.7	11.9	21.3	31.5	68.4	82.2	149.5	1.1	13.8	26.0	94	82
INDUSTRY 2384, ROBES AND DRESSING GOWNS																
1977 Census--	136	152	99	9.6	65.1	8.3	14.9	48.6	141.9	155.7	293.6	3.3	(NA)	44.6	89	93
1976 ASM[5] ---	(NA)	(NA)	(NA)	9.1	54.8	8.2	14.8	40.8	107.1	123.0	225.4	2.2	23.4	29.0	(NA)	(NA)
1975 ASM[5] ---	(NA)	(NA)	(NA)	8.6	52.4	7.7	13.7	38.5	95.4	119.4	220.3	4.1	23.1	22.5	(NA)	(NA)
1974 ASM[5] ---	(NA)	(NA)	(NA)	9.9	51.5	8.2	15.2	35.7	111.6	128.3	236.9	1.8	28.0	29.2	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	9.2	48.6	7.8	14.2	33.6	92.1	117.3	211.7	0.6	19.4	25.0	(NA)	(NA)
1972 Census--	171	179	110	10.0	50.0	8.5	15.3	36.2	92.5	111.5	202.8	2.0	20.0	28.8	93	97
1971 ASM----	(NA)	(NA)	(NA)	9.9	48.5	8.7	16.0	34.5	98.0	98.3	195.7	3.0	27.6	25.8	(NA)	(NA)
1970 ASM[6] ---	(NA)	(NA)	(NA)	10.8	51.8	9.5	17.6	38.3	113.9	107.1	217.6	2.1	24.4	25.2	(NA)	(NA)
1969 ASM[5] ---	(NA)	(NA)	(NA)	11.9	50.2	10.7	18.9	38.3	87.4	113.6	203.2	1.0	29.1	23.1	(NA)	(NA)
1968 ASM[5] ---	(NA)	(NA)	(NA)	11.3	43.5	10.3	18.3	34.7	81.7	103.7	183.4	0.8	28.9	20.9	(NA)	(NA)
1967 Census--	237	241	139	11.3	42.9	10.1	17.6	33.1	81.9	118.2	200.2	1.5	29.4	18.4	96	95
1966 ASM[6] ---	(NA)	(NA)	(NA)	12.1	44.4	10.7	19.7	34.4	78.8	119.2	198.3	0.7	(NA)	12.9	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	12.2	42.5	10.8	20.1	33.9	73.3	114.2	187.6	0.6	(NA)	14.8	(NA)	(NA)
1964 ASM[5] ---	(NA)	(NA)	(NA)	11.3	36.0	9.9	17.8	27.8	59.5	112.7	172.4	1.3	19.1	13.6	(NA)	(NA)
1963 Census--	268	271	144	11.9	37.4	10.5	18.9	29.1	68.7	105.3	173.5	0.8	18.1	13.6	96	94
INDUSTRY 2385, WATERPROOF OUTER GARMENTS																
1977 Census--	155	167	105	12.0	89.4	10.1	17.9	61.6	194.4	157.4	348.8	5.6	(NA)	59.6	91	90
1976 ASM[6] ---	(NA)	(NA)	(NA)	11.0	71.7	9.0	16.0	48.3	160.3	186.6	338.7	11.6	36.5	61.3	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	10.9	70.9	9.0	15.6	48.2	142.9	170.1	315.6	3.0	31.1	51.1	(NA)	(NA)
1974 ASM[6] ---	(NA)	(NA)	(NA)	13.3	74.9	11.1	18.6	52.3	177.2	171.4	343.5	2.1	28.0	58.3	(NA)	(NA)
1973 ASM[6] ---	(NA)	(NA)	(NA)	15.0	86.9	12.9	23.3	65.9	173.5	168.7	336.1	7.1	34.8	59.9	(NA)	(NA)
1972 Census--	236	257	164	15.4	86.4	13.2	23.5	62.6	168.8	164.6	332.1	2.4	(S)	47.1	97	94
1971 ASM----	(NA)	(NA)	(NA)	15.5	84.8	13.1	23.3	59.8	162.7	166.4	326.9	2.5	3.9	57.7	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	17.6	86.4	14.7	25.2	60.8	170.4	180.2	345.7	2.2	4.5	53.8	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	21.4	97.5	18.2	33.2	71.5	186.9	232.2	420.6	3.7	(S)	50.4	(NA)	(NA)
1968 ASM[6] ---	(NA)	(NA)	(NA)	20.8	92.5	17.8	32.5	68.5	164.5	194.3	357.6	5.5	(S)	48.7	(NA)	(NA)
1967 Census--	299	319	212	23.3	95.3	20.2	36.9	70.9	174.4	197.9	371.9	2.9	(S)	48.7	95	93
1966 ASM----	(NA)	(NA)	(NA)	18.4	75.4	16.2	30.0	55.4	139.9	171.1	305.7	3.7	(NA)	42.5	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	18.6	68.4	16.6	29.7	50.6	134.2	151.7	280.4	3.5	(NA)	34.2	(NA)	(NA)
1964 ASM[6] ---	(NA)	(NA)	(NA)	17.5	70.0	15.4	27.3	50.2	137.1	128.6	253.8	2.0	16.7	24.6	(NA)	(NA)
1963 Census--	223	341	196	16.4	60.8	14.2	25.0	45.0	111.3	125.7	235.5	2.2	16.4	21.0	93	94

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2386, LEATHER AND SHEEP LINED CLOTHING																
1977 Census	236	239	80	6.7	54.7	5.9	10.4	41.1	94.8	122.2	214.1	1.6	(NA)	32.3	97	91
1976 ASM[5]	(NA)	(NA)	(NA)	9.7	69.5	8.5	15.5	53.8	116.9	140.7	259.8	2.8	14.4	30.2	(NA)	(NA)
1975 ASM[5]	(NA)	(NA)	(NA)	10.1	73.8	8.9	16.3	58.5	119.2	162.1	280.9	2.1	14.6	32.6	(NA)	(NA)
1974 ASM[5]	(NA)	(NA)	(NA)	11.1	61.0	10.1	17.1	49.4	107.4	135.1	238.3	3.1	16.7	34.2	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	6.9	41.2	6.0	11.1	29.6	74.9	101.6	176.5	1.5	13.4	21.0	(NA)	(NA)
1972 Census	185	187	91	7.0	40.8	6.3	11.6	30.7	82.1	93.0	172.1	2.5	(S)	20.8	94	87
1971 ASM[5]	(NA)	(NA)	(NA)	8.1	43.0	7.1	13.9	33.1	73.0	82.1	154.0	1.1	11.5	21.4	(NA)	(NA)
1970 ASM[6]	(NA)	(NA)	(NA)	8.4	40.3	7.3	14.1	31.3	68.5	71.4	139.6	0.8	16.2	17.5	(NA)	(NA)
1969 ASM[6]	(NA)	(NA)	(NA)	7.1	34.9	6.3	11.7	26.2	60.3	69.8	132.4	1.0	(S)	14.7	(NA)	(NA)
1968 ASM[6]	(NA)	(NA)	(NA)	6.2	31.4	5.7	10.5	24.4	53.9	70.7	121.5	0.5	(S)	15.2	(NA)	(NA)
1967 Census	135	139	71	5.1	23.9	4.6	8.3	18.7	43.4	55.1	98.8	0.5	(S)	8.8	97	96
1966 ASM[6]	(NA)	(NA)	(NA)	4.3	20.7	3.8	7.0	16.5	37.9	46.8	84.0	0.5	(NA)	9.1	(NA)	(NA)
1965 ASM[6]	(NA)	(NA)	(NA)	3.8	17.2	3.4	6.6	14.0	32.8	45.7	77.2	0.4	(NA)	8.3	(NA)	(NA)
1964 ASM[6]	(NA)	(NA)	(NA)	3.4	14.4	3.1	5.7	10.9	27.0	33.8	62.4	1.2	8.9	5.8	(NA)	(NA)
1963 Census	114	114	50	3.4	12.8	3.0	5.8	10.5	23.4	33.4	56.4	0.3	8.2	5.5	97	83
INDUSTRY 2387, APPAREL BELTS																
1977 Census	281	284	119	9.4	76.1	7.3	12.6	44.6	150.3	141.2	286.9	2.5	(NA)	50.9	88	96
1976 ASM[6]	(NA)	(NA)	(NA)	8.9	67.6	7.3	12.9	42.3	136.3	101.6	235.1	2.7	15.7	35.4	(NA)	(NA)
1975 ASM[6]	(NA)	(NA)	(NA)	8.9	64.3	7.2	12.7	39.5	121.0	98.3	222.8	1.6	13.1	30.0	(NA)	(NA)
1974 ASM[6]	(NA)	(NA)	(NA)	9.5	60.4	7.8	13.7	37.4	111.3	89.1	209.2	2.6	26.9	33.2	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	9.9	66.5	8.2	14.8	41.6	122.5	119.9	241.5	2.1	21.0	32.2	(NA)	(NA)
1972 Census	292	297	132	10.3	65.9	8.7	16.2	41.0	132.5	128.6	257.5	3.2	20.1	33.9	94	97
1971 ASM	(NA)	(NA)	(NA)	9.6	56.5	8.0	13.8	33.4	120.7	88.5	204.6	1.4	12.2	29.8	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	8.7	44.5	7.3	12.6	28.7	91.3	68.2	155.9	1.4	13.4	22.3	(NA)	(NA)
1969 ASM[6]	(NA)	(NA)	(NA)	8.2	40.9	6.8	12.1	24.9	86.1	61.4	146.9	1.2	14.9	18.6	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	8.4	40.2	6.9	12.1	24.6	85.6	61.9	145.1	0.5	14.7	18.5	(NA)	(NA)
1967 Census	274	277	108	8.5	38.6	7.2	12.7	24.6	68.0	61.5	130.2	0.9	14.8	15.6	89	98
1966 ASM[6]	(NA)	(NA)	(NA)	9.4	38.0	7.9	15.6	25.2	64.9	59.2	121.4	1.7	(NA)	15.4	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	8.7	34.1	7.2	13.6	22.9	59.6	48.0	106.8	0.8	(NA)	12.6	(NA)	(NA)
1964 ASM[6]	(NA)	(NA)	(NA)	9.0	35.0	7.4	13.4	23.1	56.7	44.9	101.6	0.6	16.7	10.6	(NA)	(NA)
1963 Census	388	389	141	9.8	35.6	8.3	15.2	24.8	62.2	46.2	108.6	0.7	16.0	10.9	91	94
INDUSTRY 2389, APPAREL AND ACCESSORIES, N.E.C.																
1977 Census	304	312	100	8.1	56.7	6.7	11.6	38.6	109.7	98.6	205.5	4.2	(NA)	46.6	90	95
1976 ASM[5]	(NA)	(NA)	(NA)	8.3	58.6	6.8	11.8	37.2	109.3	109.3	215.4	2.8	27.3	54.7	(NA)	(NA)
1975 ASM[5]	(NA)	(NA)	(NA)	7.6	48.8	6.4	10.6	32.5	99.3	81.1	176.6	0.6	23.5	48.0	(NA)	(NA)
1974 ASM[5]	(NA)	(NA)	(NA)	9.4	54.6	8.2	14.1	40.5	103.8	99.4	196.2	0.8	23.9	46.0	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	7.0	36.6	6.0	10.7	25.2	57.0	67.3	124.3	3.0	13.3	23.4	(NA)	(NA)
1972 Census	238	244	87	7.3	35.3	6.2	10.9	24.5	59.7	58.0	116.8	2.8	11.6	22.5	97	84
1971 ASM	(NA)	(NA)	(NA)	6.6	37.7	5.6	9.5	24.9	71.1	66.7	137.5	2.2	18.5	32.8	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	8.1	41.4	7.1	11.5	29.7	91.3	78.7	166.0	3.0	20.2	31.3	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	9.9	42.4	8.3	14.3	28.0	71.3	86.8	160.1	2.8	28.2	28.7	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	8.9	38.0	7.6	12.9	26.6	67.4	68.1	134.6	3.1	29.6	24.3	(NA)	(NA)
1967 Census	243	249	102	8.4	35.1	7.1	12.4	24.5	55.8	63.3	119.5	2.9	28.9	21.2	96	95
1966 ASM	(NA)	(NA)	(NA)	8.7	34.2	7.4	13.6	25.0	55.0	60.7	116.6	1.3	(NA)	20.1	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	8.7	33.9	7.5	13.4	24.7	53.3	61.5	115.4	1.3	(NA)	20.1	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	7.4	26.6	6.3	10.7	19.5	49.2	55.2	102.2	1.4	17.9	17.2	(NA)	(NA)
1963 Census	255	270	108	7.2	25.6	6.2	11.0	19.2	43.2	52.7	98.2	0.5	17.2	18.2	93	83

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2371, FUR GOODS											
1977 Census--	12 736	(NA)	78	1 610	7.06	71	84	(NA)	27 892	45	22.03
1976 ASM----	10 727	(S)	81	1 666	5.68	67	82	(S)	22 666	47	16.62
1975 ASM----	9 219	(S)	85	1 514	5.35	65	81	(S)	21 048	43	16.28
1974 ASM----	8 744	(S)	83	1 611	4.81	62	79	(S)	19 395	45	14.37
1973 ASM----	8 815	(S)	84	1 718	4.72	67	83	(S)	16 657	52	11.50
1972 Census--	8 765	(NA)	85	1 675	4.64	61	80	(NA)	18 340	47	12.86
1971 ASM----	7 916	(S)	83	1 700	4.13	61	82	(S)	13 291	59	9.38
1970 ASM----	7 685	(NA)	88	1 645	4.20	59	79	(NA)	16 028	47	11.00
1969 ASM----	7 444	(S)	86	1 828	3.84	60	79	(S)	14 753	50	9.33
1968 ASM----	7 670	(S)	86	1 750	4.05	63	82	(S)	14 632	52	9.71
1967 Census--	6 988	(S)	85	1 808	3.59	64	82	(S)	13 788	50	8.87
1966 ASM----	6 479	(NA)	84	1 790	3.18	66	83	(NA)	13 291	48	8.80
1965 ASM----	6 436	(NA)	87	1 817	3.18	68	84	(NA)	12 595	51	7.94
1964 ASM----	6 377	979	80	1 911	3.25	68	86	2	10 571	60	6.86
1963 Census--	6 021	1 010	82	1 883	3.14	67	84	2	11 892	50	7.62
INDUSTRY 2381, FABRIC DRESS AND WORK GLOVES											
1977 Census--	6 326	(NA)	90	1 821	3.13	49	71	(NA)	14 754	42	8.95
1976 ASM----	6 383	3 929	89	1 820	3.14	57	80	14	12 474	51	7.62
1975 ASM----	6 170	3 954	89	1 759	3.08	55	77	14	11 988	51	7.58
1974 ASM----	5 303	2 565	90	1 854	2.57	52	74	10	11 663	45	6.97
1973 ASM----	4 743	2 128	90	1 830	2.36	50	76	11	9 222	51	5.56
1972 Census--	4 731	1 983	91	1 853	2.34	50	78	11	8 428	56	4.96
1971 ASM----	4 241	2 008	90	1 825	2.15	49	79	14	7 025	60	4.23
1970 ASM----	4 048	1 682	91	1 819	2.07	49	81	13	6 344	63	3.80
1969 ASM----	4 065	1 784	92	1 823	2.07	50	78	12	7 209	56	4.25
1968 ASM----	3 797	1 756	93	1 847	1.90	53	80	12	6 648	57	3.85
1967 Census--	3 478	1 721	92	1 884	1.70	53	81	13	6 178	56	3.53
1966 ASM----	3 358	(NA)	90	1 930	1.55	55	81	(NA)	5 899	56	3.37
1965 ASM----	3 120	(NA)	91	1 927	1.48	52	78	(NA)	5 946	52	3.37
1964 ASM----	3 039	1 269	92	1 811	1.55	53	78	10	4 833	62	2.87
1963 Census--	2 867	1 078	92	1 789	1.47	54	79	9	5 343	53	3.21
INDUSTRY 2384, ROBES AND DRESSING GOWNS											
1977 Census--	6 777	(NA)	86	1 788	3.26	53	75	(NA)	14 770	45	9.54
1976 ASM----	6 021	2 571	90	1 804	2.75	54	78	10	11 769	51	7.23
1975 ASM----	6 093	2 686	89	1 779	2.81	54	77	10	11 093	54	6.96
1974 ASM----	5 202	2 828	82	1 853	2.34	54	75	11	11 272	46	7.34
1973 ASM----	5 282	2 108	84	1 820	2.36	55	78	9	10 010	52	6.48
1972 Census--	5 000	2 000	85	1 800	2.36	54	79	9	9 250	54	6.04
1971 ASM----	4 898	2 787	87	1 839	2.15	50	75	14	9 898	49	6.12
1970 ASM----	4 796	2 259	87	1 852	2.17	49	73	11	10 546	45	6.47
1969 ASM----	4 218	2 445	89	1 766	2.02	55	80	14	7 344	57	4.62
1968 ASM----	3 849	2 557	91	1 776	1.89	56	80	15	7 230	53	4.46
1967 Census--	3 796	2 601	89	1 742	1.88	59	80	14	7 247	52	4.65
1966 ASM----	3 669	(NA)	88	1 841	1.74	60	82	(NA)	6 512	56	4.00
1965 ASM----	3 483	(NA)	88	1 861	1.68	60	83	(NA)	6 008	57	3.64
1964 ASM----	3 185	1 690	87	1 797	1.56	65	86	11	5 265	60	3.34
1963 Census--	3 142	1 521	88	1 800	1.53	60	82	10	5 773	54	3.63
INDUSTRY 2385, WATERPROOF OUTER GARMENTS											
1977 Census--	7 428	(NA)	84	1 769	3.43	45	70	(NA)	16 158	45	10.83
1976 ASM----	6 518	3 318	81	1 777	3.01	55	76	10	14 572	44	10.01
1975 ASM----	6 504	2 853	82	1 733	3.08	53	76	9	13 110	49	9.16
1974 ASM----	5 631	2 105	83	1 675	2.81	49	71	8	13 323	42	9.52
1973 ASM----	5 793	2 320	86	1 806	2.82	50	76	10	11 566	50	7.44
1972 Census--	5 610	(S)	85	1 780	2.66	49	75	(S)	10 961	51	7.18
1971 ASM----	5 470	251	84	1 778	2.56	50	76	1	10 496	52	6.98
1970 ASM----	4 909	255	83	1 714	2.41	52	77	1	9 681	50	6.76
1969 ASM----	4 556	(S)	85	1 824	2.15	55	78	(S)	8 733	52	5.62
1968 ASM----	4 447	(S)	85	1 825	2.10	54	80	(S)	7 908	56	5.06
1967 Census--	4 090	(S)	86	1 826	1.92	53	78	(S)	7 484	54	4.72
1966 ASM----	4 097	(NA)	88	1 851	1.84	55	80	(NA)	7 603	53	4.66
1965 ASM----	3 677	(NA)	89	1 789	1.70	54	78	(NA)	7 215	50	4.51
1964 ASM----	4 000	954	88	1 772	1.83	50	78	6	7 834	51	5.02
1963 Census--	3 707	1 000	86	1 760	1.80	53	79	6	6 786	54	4.45

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2386, LEATHER AND SHEEP LINED CLOTHING										
1977 Census--	8 164	(NA)	87	1 766	3.94	57	82	(NA)	14 161	57	9.11
1976 ASM----	7 164	1 484	87	1 823	3.47	54	80	5	12 051	59	7.54
1975 ASM----	7 306	1 445	88	1 831	3.58	57	83	5	11 801	61	7.31
1974 ASM----	5 495	1 504	90	1 693	2.88	56	82	7	9 675	56	6.28
1973 ASM----	5 971	1 942	86	1 850	2.66	57	80	7	10 855	55	6.74
1972 Census--	5 828	(S)	90	1 841	2.64	54	77	(S)	11 728	49	7.07
1971 ASM----	5 308	1 419	87	1 957	2.38	53	81	7	9 012	58	5.25
1970 ASM----	4 797	1 928	86	1 931	2.21	51	80	11	8 154	58	4.85
1969 ASM----	4 915	(S)	88	1 857	2.23	52	79	(S)	8 492	57	5.15
1968 ASM----	5 064	(S)	91	1 842	2.32	58	84	(S)	8 693	58	5.13
1967 Census--	4 686	(S)	90	1 804	2.25	55	79	(S)	8 509	55	5.22
1966 ASM----	4 813	(NA)	88	1 842	2.35	55	80	(NA)	8 813	54	5.41
1965 ASM----	4 526	(NA)	89	1 941	2.12	59	81	(NA)	8 631	52	4.96
1964 ASM----	4 235	2 617	91	1 838	1.91	54	77	14	7 941	53	4.73
1963 Census--	3 764	2 411	88	1 933	1.81	59	81	14	6 882	54	4.03
	INDUSTRY 2387, APPAREL BELTS										
1977 Census--	8 083	(NA)	77	1 721	3.54	49	75	(NA)	15 955	50	11.96
1976 ASM----	7 595	1 764	82	1 767	3.27	43	71	6	15 314	49	10.56
1975 ASM----	7 224	1 471	80	1 763	3.11	44	72	5	13 595	53	9.52
1974 ASM----	6 357	2 831	82	1 756	2.72	42	71	12	11 715	54	8.12
1973 ASM----	6 717	2 121	82	1 804	2.81	49	77	8	12 373	54	8.27
1972 Census--	6 398	1 951	84	1 862	2.53	49	75	7	12 864	49	8.17
1971 ASM----	5 885	1 270	83	1 725	2.42	43	70	5	12 572	46	8.74
1970 ASM----	5 114	1 540	83	1 726	2.27	43	72	8	10 494	48	7.24
1969 ASM----	4 987	1 817	82	1 779	2.05	41	69	10	10 500	47	7.11
1968 ASM----	4 785	1 750	82	1 753	2.03	42	70	10	10 190	46	7.07
1967 Census--	4 541	1 741	84	1 763	1.93	47	76	11	8 000	56	5.35
1966 ASM----	4 042	(NA)	84	1 974	1.61	48	80	(NA)	6 904	58	4.16
1965 ASM----	3 919	(NA)	82	1 888	1.68	44	76	(NA)	6 850	57	4.38
1964 ASM----	3 888	1 855	82	1 810	1.72	44	78	16	6 300	61	4.23
1963 Census--	3 632	1 632	84	1 831	1.63	42	75	14	6 346	57	4.09
	INDUSTRY 2389, APPAREL AND ACCESSORIES, N.E.C.										
1977 Census--	7 034	(NA)	83	1 724	3.33	47	75	(NA)	13 611	51	9.48
1976 ASM----	7 060	3 289	81	1 735	3.15	50	77	12	13 168	53	9.26
1975 ASM----	6 421	3 092	84	1 656	3.06	45	73	13	13 065	49	9.36
1974 ASM----	5 808	2 542	87	1 719	2.87	50	78	12	11 042	52	7.36
1973 ASM----	5 228	1 900	85	1 783	2.35	54	83	10	8 142	64	5.32
1972 Census--	4 835	1 589	84	1 758	2.24	49	79	9	8 178	59	5.47
1971 ASM----	5 712	2 803	84	1 696	2.62	48	75	13	10 772	53	7.48
1970 ASM----	5 111	2 493	87	1 619	2.58	47	72	12	11 271	45	7.93
1969 ASM----	4 282	2 848	83	1 722	1.95	54	80	17	7 202	59	4.98
1968 ASM----	4 269	3 325	85	1 697	2.06	50	78	21	7 573	56	5.22
1967 Census--	4 178	3 440	84	1 746	1.97	52	82	24	6 642	62	4.50
1966 ASM----	3 931	(NA)	85	1 837	1.83	52	81	(NA)	6 321	62	4.04
1965 ASM----	3 896	(NA)	86	1 786	1.84	53	82	(NA)	6 126	63	3.97
1964 ASM----	3 594	2 418	85	1 698	1.82	54	80	17	6 648	54	4.59
1963 Census--	3 555	2 388	86	1 774	1.74	53	79	17	6 000	59	3.92

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2371, FUR GOODS													
United States	E2	620	48	4.0	51.5	3.2	5.1	36.2	112.8	273.3	383.4	0.5	4.7	86.2
Middle Atlantic Division:													
New York	E2	531	40	3.4	45.2	2.6	4.3	31.6	101.5	250.1	349.0	0.4	3.9	76.3
INDUSTRY 2381, FABRIC DRESS AND WORK GLOVES													
United States	-	132	92	10.9	69.0	9.9	18.0	56.3	160.9	153.2	312.4	3.5	11.9	100.3
Middle Atlantic Division:													
New York	E1	21	7	0.3	2.2	0.3	0.5	1.8	6.4	5.8	12.3	(Z)	0.3	3.1
New Jersey	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pennsylvania	-	6	4	0.4	2.3	0.3	0.6	1.8	4.8	4.4	9.1	(Z)	BB	(D)
East North Central Division:														
Ohio	-	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	12.4
Indiana	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois	E1	5	5	0.4	1.8	0.4	0.6	1.7	2.4	2.1	4.7	(D)	0.7	5.1
Wisconsin	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:														
Missouri	-	6	6	0.6	3.7	0.6	1.1	3.3	14.9	13.8	27.8	0.1	CC	(D)
South Atlantic Division:														
Virginia	-	3	3	0.2	0.8	0.2	0.3	0.7	1.4	1.4	2.8	(D)	(NA)	(NA)
North Carolina	E2	14	13	2.4	13.8	2.2	3.9	12.4	27.2	32.0	59.2	0.2	2.1	15.9
Georgia	-	8	7	0.5	3.1	0.5	0.9	2.7	8.0	8.1	16.3	0.2	CC	(D)
East South Central Division:														
Tennessee	E2	4	3	0.4	2.6	0.4	0.8	2.0	3.8	5.5	9.3	0.1	0.9	6.4
Alabama	-	3	3	0.9	5.0	0.8	1.5	4.5	11.3	10.6	21.7	(D)	CC	(D)
Mississippi	-	11	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West South Central Division:														
Arkansas	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDUSTRY 2384, ROBES AND DRESSING GOWNS														
United States	E1	152	99	9.6	65.1	8.3	14.9	48.6	141.9	155.7	293.6	3.3	10.0	92.5
New England Division:														
Maine	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Rhode Island	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	E1	68	42	3.2	24.3	2.7	4.7	16.9	64.6	85.3	147.1	1.5	3.6	46.8
New Jersey	E1	10	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	5.7
Pennsylvania	-	11	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	2.9
East North Central Division:														
Michigan	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West North Central Division:														
Missouri	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
North Carolina	E2	6	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	6.6
South Carolina	-	10	10	1.7	10.7	1.5	2.8	8.3	20.9	18.3	39.2	(D)	1.1	7.0
Georgia	-	5	4	0.3	1.8	0.3	0.5	1.5	3.3	2.7	6.1	(Z)	AA	(D)
Florida	-	5	4	0.5	3.7	0.4	0.7	2.2	7.9	11.8	20.4	(D)	(NA)	(NA)
East South Central Division:														
Tennessee	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Alabama	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mississippi	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Oklahoma	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Industry 2384-11, Manufacturers														
United States	E1	76	45	5.1	36.0	4.4	7.9	26.5	86.8	102.9	187.6	1.8	4.2	45.2
New England Division:														
Maine	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Rhode Island	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	E1	39	24	2.3	16.9	2.0	3.4	12.8	42.9	52.7	93.2	1.2	EE	(D)
East North Central Division:														
Michigan	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Division:														
Missouri	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
North Carolina	E0	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Carolina	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Division:														
Alabama	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2384-22, Jobbers													
United States	-	18	8	0.5	5.3	0.3	0.6	2.2	19.4	44.8	63.8	0.2	1.2	23.7
Middle Atlantic Division:													
New York	E1	13	6	0.3	3.7	0.2	0.2	1.0	16.5	31.6	47.7	(D)	CC	(D)
South Atlantic Division:													
North Carolina	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Industry 2384-33, Contractors													
United States	E1	56	45	3.9	22.9	3.5	6.2	19.0	33.2	4.8	36.6	1.3	4.6	23.6
Middle Atlantic Division:													
New York	E2	16	12	0.6	3.6	0.5	1.0	3.1	5.2	1.0	6.2	0.1	CC	(D)
New Jersey	-	7	5	0.3	2.2	0.3	0.5	1.9	2.7	0.2	2.9	(D)	BB	(D)
Pennsylvania	-	6	6	0.3	1.9	0.3	0.5	1.6	2.5	0.3	2.8	(Z)	BB	(D)
South Atlantic Division:														
South Carolina	-	6	6	0.9	5.6	0.9	1.7	5.0	7.1	0.5	7.5	(D)	EE	(D)
Georgia	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Division:														
Tennessee	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mississippi	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West South Central Division:														
Oklahoma	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDUSTRY 2385, WATERPROOF OUTER GARMENTS														
United States	-	167	105	12.0	89.4	10.1	17.9	61.6	194.4	157.4	348.8	5.6	15.4	168.8
New England Division:														
Massachusetts	-	14	10	0.8	5.4	0.7	1.1	4.1	9.5	4.3	13.7	(D)	1.5	14.0
Middle Atlantic Division:														
New York	E1	62	37	1.9	15.3	1.6	2.7	9.7	37.4	43.4	80.5	2.5	3.6	46.3
New Jersey	E1	18	14	1.0	7.4	1.0	1.7	6.0	13.9	6.4	20.1	(D)	1.3	12.3
Pennsylvania	E1	5	3	0.2	1.4	0.2	0.3	1.2	1.9	0.6	2.5	(Z)	1.0	9.4
East North Central Division:														
Ohio	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Indiana	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Michigan	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Atlantic Division:														
Maryland	-	11	10	3.3	28.2	2.6	4.8	18.4	70.6	47.5	116.3	(D)	FF	(D)
Virginia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
North Carolina	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	-	10	8	0.9	5.9	0.7	1.2	3.9	10.3	12.4	22.3	0.1	0.9	6.7
East South Central Division:														
Kentucky	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Alabama	-	3	3	0.5	3.0	0.4	0.9	2.2	5.0	2.2	7.0	(D)	CC	(D)
West South Central Division:														
Arkansas	E0	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Louisiana	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Industry 2385-11, Manufacturers														
United States	-	85	39	6.6	50.2	5.5	10.2	33.7	112.4	75.1	189.1	2.5	7.9	87.5
New England Division:														
Massachusetts	-	6	3	0.3	2.1	0.3	0.5	1.6	4.6	3.1	7.6	0.1	0.4	2.9
Middle Atlantic Division:														
New York	E5	22	8	0.4	3.2	0.4	0.7	2.3	6.1	6.0	12.1	0.1	1.3	17.2
New Jersey	E2	7	4	0.4	3.0	0.4	0.6	2.2	4.8	4.9	9.7	0.1	0.5	5.1
East North Central Division:														
Ohio	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Indiana	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Michigan	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Atlantic Division:														
Maryland	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Virginia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
North Carolina	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
East South Central Division:														
Kentucky	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Alabama	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Louisiana	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2385-22, Jobbers													
United States	-	23	6	1.1	12.3	0.7	1.3	5.4	42.6	76.2	114.3	2.6	1.3	32.5
Middle Atlantic Division:													
New York	-	16	12	0.5	6.4	0.4	0.7	2.9	20.8	36.5	57.1	2.3	0.5	15.6
South Atlantic Division:													
Maryland	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Industry 2385-33, Contractors													
United States	-	58	47	4.2	26.8	4.0	6.5	22.4	39.2	6.0	45.1	0.6	6.2	47.4
New England Division:													
Massachusetts	-	7	6	0.4	3.1	0.3	0.6	2.3	3.9	0.8	4.7	(Z)	CC	(D)
Middle Atlantic Division:													
New York	-	23	17	1.0	5.6	0.9	1.3	4.5	10.4	0.8	11.1	(D)	1.8	13.5
New Jersey	-	10	9	0.5	3.6	0.5	1.0	3.4	4.3	0.7	4.9	(Z)	0.6	5.0
Pennsylvania	E1	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	3.1
South Atlantic Division:														
Maryland	-	5	5	1.1	8.3	1.0	1.6	7.4	12.3	0.9	13.3	(D)	EE	(D)
Georgia	-	5	4	0.3	1.8	0.2	0.4	1.1	2.7	1.0	3.7	(D)	(NA)	(NA)
East South Central Division:														
Alabama	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West South Central Division:														
Arkansas	E0	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
INDUSTRY 2386, LEATHER AND SHEEP LINED CLOTHING														
United States	E1	239	80	6.7	54.7	5.9	10.4	41.1	94.8	122.2	214.1	1.6	7.0	82.1
New England Division:														
Massachusetts	-	8	6	0.7	5.8	0.6	1.1	4.2	10.7	10.8	19.9	(D)	0.6	7.9
Middle Atlantic Division:														
New York	E1	116	37	2.3	20.3	2.0	3.4	15.1	33.7	59.5	92.3	0.4	2.5	32.8
New Jersey	-	15	10	1.0	7.1	0.9	1.6	5.5	11.3	11.9	23.3	(D)	0.8	8.1
East North Central Division:														
Illinois	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Michigan	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West North Central Division:														
Missouri	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
East South Central Division:														
Tennessee	E1	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
California	E1	40	9	0.8	7.3	0.7	1.3	5.3	12.5	14.7	26.9	0.2	0.5	8.6
INDUSTRY 2387, APPAREL BELTS														
United States	-	284	119	9.4	76.1	7.3	12.6	44.6	150.3	141.2	286.9	2.5	10.3	132.5
New England Division:														
Massachusetts	E1	11	7	0.6	5.5	0.5	0.8	3.7	9.3	7.2	16.5	(D)	CC	(D)
Connecticut	-	7	4	0.7	5.8	0.6	1.2	4.0	20.7	11.8	32.3	0.3	0.7	10.7
Middle Atlantic Division:														
New York	E1	142	55	3.2	25.7	2.7	4.5	16.3	48.4	48.1	95.0	0.9	5.1	63.8
New Jersey	-	6	4	0.3	1.8	0.2	0.4	1.2	3.0	4.2	7.2	(D)	0.4	3.7
Pennsylvania	-	12	6	0.5	3.5	0.4	0.7	2.4	7.4	6.7	14.0	0.1	0.5	4.3
East North Central Division:														
Ohio	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Illinois	-	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
North Carolina	-	5	2	0.2	2.2	0.2	0.3	1.0	3.8	3.3	6.9	(D)	BB	(D)
Georgia	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida	E1	6	3	0.2	1.4	0.2	0.3	1.0	2.0	1.0	2.9	(D)	0.2	2.1
West South Central Division:														
Oklahoma	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Texas	-	15	13	1.3	8.4	0.9	1.4	4.5	17.9	12.8	29.6	0.2	CC	(D)
Mountain Division:														
Arizona	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Pacific Division:														
California	E2	42	9	0.7	6.0	0.6	1.1	3.8	13.0	8.8	21.2	0.3	CC	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977												1972	
		All establishments		All employees		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2389, APPAREL AND ACCESSORIES, N.E.C.														
United States	-	**312**	**100**	**8.1**	**56.7**	**6.7**	**11.6**	**38.6**	**109.7**	**98.6**	**205.5**	**4.2**	**7.3**	**59.7**
Middle Atlantic Division:														
New York	-	81	28	2.2	17.1	1.9	3.4	12.1	36.7	34.7	70.4	1.8	2.0	21.7
New Jersey	E1	18	8	0.5	3.1	0.4	0.7	2.2	4.5	4.6	9.0	(D)	CC	(D)
Pennsylvania	-	26	9	1.1	7.2	1.0	1.8	5.6	17.4	25.3	42.2	0.8	EE	(D)
East North Central Division:														
Ohio	-	12	6	0.5	2.7	0.3	0.5	1.4	5.3	2.9	8.2	(D)	0.4	3.8
Illinois	E1	15	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	1.6
South Atlantic Division:														
South Carolina	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	-	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Texas	E3	18	6	0.2	1.6	0.2	0.2	1.0	2.5	1.4	3.9	(Z)	AA	(D)
Pacific Division:														
California	E1	69	14	0.9	6.3	0.7	1.2	4.6	9.2	6.7	15.7	0.2	CC	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Fur goods (SIC 2371)	Fabric dress and work gloves (SIC 2381)	Robes and dressing gowns (SIC 2384)				Waterproof and outer garments (SIC 2385)			
				Total	Manufacturers (SIC 2384-11)	Jobbers (SIC 2384-22)	Contractors (SIC 2384-33)	Total	Manufacturers (SIC 2385-11)	Jobbers (SIC 2385-22)	Contractors (SIC 2385-33)
Primary product specialization ratio[1]	percent	100	91	89	(NA)	(NA)	(NA)	91	(NA)	(NA)	(NA)
Coverage ratio[2]	do	99	84	93	(NA)	(NA)	(NA)	90	(NA)	(NA)	(NA)
All establishments	number	620	132	152	76	18	58	167	85	23	58
With 1 to 19 employees	do	572	40	53	31	10	11	62	46	4	11
With 20 to 99 employees	do	46	54	68	25	7	36	70	22	16	32
With 100 employees or more	do	2	38	31	20	1	9	35	17	3	15
All employees, average for year	1,000	4.0	10.9	9.6	5.1	0.5	3.9	12.0	6.6	1.1	4.2
Payroll for year, all employees	mil. dol.	51.5	69.0	65.1	36.0	5.3	22.9	89.4	50.2	12.3	26.8
Production workers:											
Average for year	1,000	3.2	9.9	8.3	4.4	0.3	3.5	10.1	5.5	0.7	4.0
March	do	2.8	9.6	8.1	4.2	0.3	3.5	10.1	5.6	0.7	3.8
May	do	3.4	9.9	8.2	4.3	0.4	3.4	10.4	5.6	0.6	4.1
August	do	2.9	9.8	8.4	4.4	0.4	3.5	10.1	5.2	0.7	4.1
November	do	3.4	10.1	8.6	4.6	0.4	3.5	10.0	5.5	0.7	3.8
Hours	millions	5.1	18.0	14.9	7.9	0.6	6.2	17.9	10.2	1.3	6.5
January to March	do	1.2	4.2	3.4	1.8	0.1	1.5	4.3	2.5	0.3	1.5
April to June	do	1.3	4.6	3.8	2.1	0.1	1.5	4.5	2.6	0.3	1.7
July to September	do	1.2	4.4	3.8	2.0	0.1	1.6	4.5	2.5	0.3	1.7
October to December	do	1.5	4.7	3.8	2.0	0.2	1.6	4.6	2.6	0.3	1.6
Wages	mil. dol.	36.2	56.3	48.6	26.5	2.2	19.0	61.6	33.7	5.4	22.4
Cost of materials, etc.	do	273.3	153.2	155.7	102.9	44.8	4.8	157.4	75.1	76.2	6.0
Materials, parts, containers, etc., consumed	do	260.5	131.8	119.3	82.2	30.9	3.6	105.5	57.8	43.3	4.3
Resales	do	2.4	18.3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fuels consumed	do	0.4	0.7	0.4	0.3	(Z)	0.1	1.3	0.6	0.1	0.6
Purchased electric energy	do	0.9	1.3	1.4	0.7	0.1	0.5	2.0	1.0	0.3	0.7
Contract work	do	9.1	1.2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Value of shipments, including resales	do	383.4	312.4	293.6	187.6	63.8	36.6	348.8	189.1	114.3	45.1
Value of resales	do	6.4	21.7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Value added by manufacture	do	112.8	160.9	141.9	86.8	19.4	33.2	194.4	112.4	42.6	39.2
Manufacturers' inventories:											
Beginning of year	do	41.3	39.1	36.2	24.9	11.4	1.7	52.6	34.6	15.3	2.7
Finished products	do	20.1	16.3	13.5	10.1	3.1	0.2	27.5	19.2	7.5	0.8
Work in process	do	3.1	8.5	9.1	6.8	1.3	0.9	9.5	6.5	2.4	0.6
Materials, supplies, fuel, etc.	do	18.0	14.3	15.7	7.9	7.1	0.6	15.6	8.9	5.4	1.3
End of year	do	46.5	42.1	44.6	27.4	12.7	3.9	59.8	34.9	21.2	3.6
Finished products	do	22.2	16.9	15.8	11.7	3.3	0.6	29.8	17.8	11.3	0.7
Work in process	do	3.7	9.6	10.8	7.2	1.5	2.0	10.2	6.3	3.1	0.8
Materials, supplies, fuel, etc.	do	20.6	15.6	18.0	8.5	8.0	1.3	19.6	10.8	6.8	2.0
Capital expenditures for plant and equipment	do	0.7	3.6	3.8	2.2	0.2	1.3	5.7	2.5	2.6	0.6
New capital expenditures	do	0.5	3.5	3.3	1.8	0.2	1.3	5.6	2.5	2.6	0.6
New buildings and other structures	do	0.2	0.4	0.9	0.4	0.1	0.3	2.1	1.4	0.4	0.3
New machinery and equipment	do	0.3	3.1	2.5	1.3	0.1	1.0	3.5	1.1	2.2	0.3
Used capital expenditures	do	0.2	0.1	0.4	0.4	-	(Z)	0.1	(Z)	-	0.1

See footnotes at end of table.

Table 3a. Summary Statistics for the Industry: 1977—Con.

[For explanation of terms, see appendix A]

Item	Unit of measure	Leather and sheep lined clothing (SIC 2386)	Apparel belts (SIC 2387)	Apparel and accessories, n.e.c. (SIC 2389)
Primary product specialization ratio[1]	percent	97	88	90
Coverage ratio[2]	do	91	96	95
All establishments	number	239	284	312
With 1 to 19 employees	do	159	165	212
With 20 to 99 employees	do	62	101	84
With 100 employees or more	do	18	18	16
All employees, average for year	1,000	6.7	9.4	8.1
Payroll for year, all employees	mil. dol.	54.7	76.1	56.7
Production workers:				
Average for year	1,000	5.9	7.3	6.7
March	do	5.3	7.2	6.7
May	do	6.0	7.3	7.3
August	do	6.4	7.2	6.5
November	do	5.9	7.5	6.4
Hours	millions	10.4	12.6	11.6
January to March	do	2.3	3.1	2.7
April to June	do	2.7	3.2	3.2
July to September	do	2.8	3.1	2.8
October to December	do	2.5	3.2	2.8
Wages	mil. dol.	41.1	44.6	38.6
Cost of materials, etc.	do	122.2	141.2	98.6
Materials, parts, containers, etc., consumed	do	109.6	122.7	79.1
Resales	do	2.0	8.6	9.9
Fuels consumed	do	0.3	0.9	0.5
Purchased electric energy	do	1.0	1.6	1.0
Contract work	do	9.3	7.5	8.2
Value of shipments, including resales	do	214.1	286.9	205.5
Value of resales	do	3.2	10.9	11.0
Value added by manufacture	do	94.8	150.3	109.7
Manufacturers' inventories:				
Beginning of year	do	25.8	43.9	44.2
Finished products	do	11.7	18.4	23.3
Work in process	do	4.1	5.4	4.9
Materials, supplies, fuel, etc.	do	10.1	20.1	16.0
End of year	do	32.3	50.9	46.6
Finished products	do	14.3	22.2	26.2
Work in process	do	4.4	6.3	5.0
Materials, supplies, fuel, etc.	do	13.6	22.4	15.5
Capital expenditures for plant and equipment	do	1.7	2.6	4.4
New capital expenditures	do	1.6	2.5	4.2
New buildings and other structures	do	0.6	0.3	1.0
New machinery and equipment	do	0.9	2.2	3.2
Used capital expenditures	do	0.1	0.1	0.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Fur goods (SIC 2371)		Fabric dress and work gloves (SIC 2381)		Robes and dressing gowns (SIC 2384)		Water proof and outer garments (SIC 2385)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	-	(X)	0.2	8	(0.1)	48	(0.1)	36
Response coverage ratio[2] (percent)	65.5	(X)	59.3	(X)	70.0	(X)	64.3	(X)
Machinery	(0.2)	35	(1.0)	24	(0.2)	32	(0.4)	26
Response coverage ratio[2] (percent)	69.2	(X)	81.6	(X)	73.3	(X)	67.7	(X)
Cost of purchased communication services	(0.2)	33	(0.4)	65	(0.6)	24	(0.9)	15
Response coverage ratio[2] (percent)	61.9	(X)	82.1	(X)	65.4	(X)	63.0	(X)
Rental payments	(1.7)	22	(1.0)	21	3.4	14	3.5	13
Buildings and other structures	(1.5)	21	(0.4)	21	(2.1)	21	(2.0)	18
Machinery and equipment	(0.2)	78	(0.7)	37	(1.3)	33	(1.5)	20
Supplemental labor costs	6.6	7	9.6	5	7.6	4	16.6	3
Legal costs	4.8	8	5.7	2	4.9	4	9.2	2
Voluntary costs	1.8	11	3.9	10	2.7	8	7.4	5
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	(1.4)	41	(10.8)	17	(3.7)	57	17.0	13
New capital expenditures	(0.2)	13	(0.5)	17	(0.8)	36	(2.1)	25
Used capital expenditures	0.1	1	-	(X)	0.3	1	-	(X)
Retirements	(0.3)	76	(0.2)	97	(1.8)	85	(0.4)	68
End of year	(1.4)	29	(11.2)	16	(3.0)	64	18.8	13
Machinery and equipment:								
Beginning of year	(5.3)	35	21.0	6	(11.4)	17	21.5	8
New capital expenditures	(0.7)	40	3.3	8	(3.8)	18	(4.1)	44
Automobiles, trucks, etc., for highway use[3]	(D)	(A)	(D)	(A)	(0.2)	(A)	(0.3)	(A)
Computers and peripheral data processing equipment[3]	(D)	(A)	(D)	(A)	(0.1)	(A)	(Z)	(A)
All other[3]	(D)	(A)	(D)	(A)	(3.1)	(A)	(3.1)	(A)
New machinery and equipment, n.s.k.[4]	(D)	(A)	(D)	(A)	(0.4)	(A)	(0.7)	(A)
Used capital expenditures	0.1	1	0.1	1	(0.5)	83	-	(X)
Retirements	(1.3)	65	(0.7)	36	(1.1)	35	2.3	11
End of year	(4.8)	29	23.7	5	14.7	13	23.4	12
Total gross value of depreciable assets:								
Beginning of year	(6.7)	36	31.8	7	(15.1)	21	38.5	9
New capital expenditures	(0.9)	31	3.9	9	(4.6)	15	(6.2)	35
Used capital expenditures	0.2	1	0.1	1	(0.8)	50	-	(X)
Retirements	(1.6)	67	(0.9)	49	(2.8)	64	(2.7)	15
End of year	(6.2)	29	34.9	6	(17.7)	17	42.1	12
Depreciation charges during 1977	(0.8)	56	2.2	7	1.5	14	2.4	9
Buildings and other structures	(0.3)	80	(0.5)	16	(0.1)	92	.7	13
Machinery and equipment	(0.5)	47	1.7	6	1.3	10	1.8	12

See footnotes at end of table.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977—Con.

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Leather and sheep lined clothing (SIC 2386)		Apparel belts (SIC 2387)		Apparel and accessories, n.e.c. (SIC 2389)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	0.1	(X)	0.1	14	(0.1)	81
Response coverage ratio[2] (percent)	82.2	(X)	61.1	(X)	64.7	(X)
Machinery	(0.3)	52	(0.4)	23	(0.3)	45
Response coverage ratio[2] (percent)	65.7	(X)	68.2	(X)	61.0	(X)
Cost of purchased communication services	(0.4)	41	(0.8)	21	(0.4)	56
Response coverage ratio[2] (percent)	66.9	(X)	76.6	(X)	73.3	(X)
Rental payments	(2.5)	77	4.7	11	(2.2)	28
Buildings and other structures	(2.1)	80	3.8	12	(2.0)	31
Machinery and equipment	(0.3)	32	(0.9)	27	(0.2)	25
Supplemental labor costs	(6.6)	25	10.2	3	(6.6)	17
Legal costs	(4.5)	22	6.4	4	3.8	11
Voluntary costs	(2.1)	36	3.7	6	(2.7)	30
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning of year	(0.8)	(A)	(9.4)	19	(4.4)	21
New capital expenditures	(1.0)	57	(0.1)	(A)	(0.2)	46
Used capital expenditures	-	(X)	(0.2)	68	(0.1)	31
Retirements	-	(X)	(0.5)	24	(0.3)	29
End of year	(1.8)	92	(9.2)	21	(4.4)	21
Machinery and equipment:						
Beginning of year	(7.5)	21	13.2	6	(13.1)	21
New capital expenditures	(1.4)	33	(1.6)	19	(3.2)	23
Automobiles, trucks, etc., for highway use[3]	(0.2)	(A)	(0.1)	(A)	(0.1)	(A)
Computers and peripheral data processing equipment[3]	(0.2)	(A)	(0.2)	(A)	-	(X)
All other[3]	(0.3)	(A)	(0.7)	(A)	(1.9)	(A)
New machinery and equipment, n.s.k.[4]	(0.7)	(A)	(0.7)	(A)	(1.2)	(A)
Used capital expenditures	(0.1)	(A)	-	(X)	(0.3)	60
Retirements	(0.3)	68	(1.3)	23	(0.6)	61
End of year	(8.6)	20	13.5	7	(16.0)	17
Total gross value of depreciable assets:						
Beginning of year	(8.3)	34	22.6	9	(17.4)	20
New capital expenditures	(2.4)	32	(1.7)	21	(3.5)	22
Used capital expenditures	(0.1)	(A)	(0.2)	66	(0.4)	47
Retirements	(0.3)	(A)	(1.8)	20	(1.0)	49
End of year	(10.4)	28	22.7	10	(20.4)	16
Depreciation charges during 1977	(0.8)	22	1.7	11	(1.6)	18
Buildings and other structures	(0.1)	46	(0.5)	27	(0.2)	27
Machinery and equipment	(0.7)	20	1.2	8	(1.4)	20

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors at 100 percent or more. (D) Withheld to avoid disclosing operation of individual companies. n.s.k. Not specified by kind. (X) Not applicable. n.e.c. Not elsewhere classified. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

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Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2371, FUR GOODS												
Total	**E2**	**620**	**4.0**	**51.5**	**3.2**	**5.1**	**36.2**	**112.8**	**273.3**	**383.4**	**0.5**	**46.5**
Establishments with an average of—												
1 to 4 employees	E8	401	0.6	7.6	0.6	0.8	5.4	13.6	42.3	56.1	(Z)	6.2
5 to 9 employees	E2	104	0.7	8.9	0.5	0.9	6.4	19.3	47.0	65.9	0.1	7.7
10 to 19 employees	E1	67	0.9	12.2	0.7	1.2	8.6	28.3	79.2	106.6	0.2	12.5
20 to 49 employees	E1	37	1.1	13.2	0.8	1.3	9.3	30.9	58.7	88.5	0.1	11.7
50 to 99 employees	E2	9	(0.8)	(9.6)	(0.6)	(0.9)	(6.5)	(20.8)	(46.0)	(66.3)	(0.1)	(8.4)
100 to 249 employees	–	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	352	0.5	6.7	0.5	0.7	4.7	11.6	36.2	47.8	–	5.2
INDUSTRY 2381, FABRIC DRESS AND WORK GLOVES												
Total	**–**	**132**	**10.9**	**69.0**	**9.9**	**18.0**	**56.3**	**160.9**	**153.2**	**312.4**	**3.5**	**42.1**
Establishments with an average of—												
1 to 4 employees	E4	20	(Z)	0.2	(Z)	(Z)	0.2	0.4	0.8	1.3	(Z)	0.2
5 to 9 employees	E4	9	0.1	0.4	(Z)	0.1	0.3	0.7	1.0	1.7	(Z)	0.2
10 to 19 employees	E5	11	0.2	0.9	0.1	0.2	0.7	1.6	2.3	3.9	(Z)	0.6
20 to 49 employees	–	31	1.1	6.4	1.0	1.9	5.3	12.8	14.5	27.4	0.1	3.3
50 to 99 employees	E1	23	1.6	9.0	1.5	2.5	7.5	23.2	25.3	48.0	0.4	6.0
100 to 249 employees	–	28	4.0	23.8	3.7	6.5	20.0	46.1	46.4	91.7	0.5	13.1
250 to 499 employees	–	8	(3.9)	(28.3)	(3.5)	(6.7)	(22.3)	(76.1)	(63.0)	(138.4)	(2.4)	(18.8)
500 to 999 employees	–	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	31	0.2	1.4	0.2	0.3	1.1	2.1	2.6	4.7	(Z)	0.8
INDUSTRY 2384, ROBES AND DRESSING GOWNS												
Total	**E1**	**152**	**9.6**	**65.1**	**8.3**	**14.9**	**48.6**	**141.9**	**155.7**	**293.6**	**3.3**	**44.6**
Establishments with an average of—												
1 to 4 employees	E3	17	(Z)	0.3	(Z)	0.1	0.2	0.7	0.6	1.3	(Z)	0.2
5 to 9 employees	E2	17	0.1	0.9	0.1	0.2	0.5	3.4	2.9	6.6	(Z)	0.7
10 to 19 employees	E1	19	0.3	2.0	0.2	0.4	1.4	4.7	4.7	9.2	0.1	1.7
20 to 49 employees	E1	40	1.3	9.8	1.1	1.8	6.9	23.7	43.4	64.9	0.5	9.3
50 to 99 employees	E1	28	2.0	14.0	1.7	3.1	10.6	26.1	21.7	47.9	0.7	6.1
100 to 249 employees	E1	26	4.0	27.0	3.4	6.1	19.3	63.7	64.7	125.7	1.1	22.5
250 to 499 employees	–	4	(1.9)	(11.2)	(1.7)	(3.2)	(9.7)	(19.5)	(17.8)	(38.0)	(0.9)	(4.1)
500 to 999 employees	–	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	24	0.2	1.1	0.2	0.3	0.8	2.5	1.7	4.2	0.1	0.6
Industry 2384-11, Manufacturers												
Total	**E1**	**76**	**5.1**	**36.0**	**4.4**	**7.9**	**26.5**	**86.8**	**102.9**	**187.8**	**1.8**	**27.4**
Establishments with an average of—												
1 to 4 employees	E9	13	(Z)	0.1	(Z)	(Z)	0.1	0.3	0.2	0.5	(Z)	0.1
5 to 9 employees	E5	7	(0.2)	(1.3)	(0.2)	(0.3)	(1.0)	(3.0)	(2.0)	(5.0)	(D)	(0.7)
10 to 19 employees	E4	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E1	17	(4.8)	(34.6)	(4.2)	(7.5)	(25.4)	(83.5)	(100.6)	(182.1)	(1.7)	(26.6)
50 to 99 employees	E2	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	E1	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	–	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	20	0.1	0.8	0.1	0.2	0.6	1.9	1.3	3.2	(Z)	0.5
Industry 2384-22, Jobbers												
Total	**–**	**18**	**0.5**	**5.3**	**0.3**	**0.6**	**2.2**	**19.4**	**44.8**	**63.8**	**(0.2)**	**12.7**
Establishments with an average of—												
1 to 4 employees	–	3	(Z)	0.1	(Z)	(Z)	(0.1)	0.4	0.4	0.7	(0.2)	0.1
5 to 9 employees	–	5	(Z)	(0.8)	(Z)	(Z)	(Z)	(4.1)	(5.3)	(9.7)	(D)	(1.7)
10 to 19 employees	–	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E1	5	(0.5)	(4.5)	(0.3)	(0.5)	(2.0)	(15.0)	(39.1)	(53.5)	(D)	(11.0)
50 to 99 employees	E1	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	–	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	–	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Industry 2384-33, Contractors												
Total	**E1**	**56**	**3.9**	**22.9**	**3.5**	**6.2**	**19.0**	**33.2**	**4.8**	**36.6**	**1.3**	**3.9**
Establishments with an average of—												
1 to 4 employees	E4	1	(Z)	(0.2)	(Z)	(0.1)	(0.2)	(0.4)	(Z)	(0.4)	(Z)	(Z)
5 to 9 employees	E5	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	–	5	0.1	0.5	0.1	0.1	0.4	0.6	(Z)	0.7	(Z)	(Z)
20 to 49 employees	E2	18	(1.9)	(11.8)	(1.7)	(3.0)	(9.8)	(15.3)	(2.6)	(18.0)	(1.3)	(0.9)
50 to 99 employees	E2	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	–	7	(1.9)	(10.4)	(1.7)	(3.1)	(8.6)	(17.0)	(2.1)	(17.6)	(D)	(3.0)
250 to 499 employees	–	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	–	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	3	(Z)	0.2	(Z)	0.1	0.2	0.5	(Z)	0.5	(Z)	(Z)

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2385, WATERPROOF OUTER GARMENTS												
Total	-	167	12.0	89.4	10.1	17.9	61.6	194.4	157.4	348.8	5.6	59.6
Establishments with an average of—												
1 to 4 employees	E9	27	(Z)	0.3	(Z)	0.1	0.2	0.2	0.4	0.9	(Z)	0.1
5 to 9 employees	E7	11	0.1	0.6	0.1	0.1	0.4	0.8	1.1	1.9	(Z)	0.3
10 to 19 employees	E1	24	0.4	2.9	0.3	0.5	1.7	6.3	6.9	13.0	(1.7)	2.0
20 to 49 employees	E1	49	1.5	12.8	1.3	2.2	7.9	27.2	41.3	68.5	(D)	9.9
50 to 99 employees	-	21	1.4	9.6	1.3	2.2	7.1	22.6	14.3	36.1	0.4	4.5
100 to 249 employees	-	25	4.0	29.5	3.5	5.9	22.4	58.0	50.2	104.5	(3.4)	18.6
250 to 499 employees	-	8	(4.6)	(33.8)	(3.7)	(6.9)	(21.9)	(79.2)	(43.1)	(123.9)	(D)	(24.1)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	28	0.1	0.6	0.1	0.2	0.5	1.1	0.8	1.9	(Z)	0.3
Industry 2385-11, Manufacturers												
Total	-	85	6.6	50.2	5.5	10.2	33.7	112.4	75.1	189.1	2.5	34.9
Establishments with an average of—												
1 to 4 employees	E9	25	(Z)	0.3	(Z)	0.1	0.2	0.2	0.4	0.9	(Z)	0.1
5 to 9 employees	E6	6	(Z)	0.3	(Z)	0.1	0.2	0.4	0.5	1.0	(Z)	0.2
10 to 19 employees	E3	15	0.2	1.6	0.2	0.3	1.1	2.8	2.9	5.7	(Z)	0.8
20 to 49 employees	E3	15	(1.0)	(6.7)	(0.9)	(1.5)	(5.0)	(12.6)	(10.2)	(22.8)	(2.5)	(4.2)
50 to 99 employees	E2	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	-	9	1.6	11.9	1.5	2.6	9.0	22.3	18.8	40.9	(D)	5.8
250 to 499 employees	-	6	(3.7)	(29.5)	(2.9)	(5.7)	(18.2)	(74.1)	(42.2)	(117.8)	(D)	(23.7)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	25	0.1	0.5	0.1	0.1	0.4	1.0	0.8	1.8	(Z)	0.3
Industry 2385-22, Jobbers												
Total	-	23	1.1	12.3	0.7	1.3	5.4	42.6	76.2	114.3	2.6	21.2
Establishments with an average of—												
5 to 9 employees	-	1	(0.1)	(0.8)	(Z)	(0.1)	(0.2)	(2.7)	(4.1)	(6.7)	(2.6)	(1.1)
10 to 19 employees	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	-	13	0.4	5.6	0.3	0.5	2.3	16.3	35.1	51.5	(D)	6.8
50 to 99 employees	-	3	0.2	1.7	0.1	0.2	0.7	10.3	8.6	18.1	(D)	1.9
100 to 249 employees	-	3	0.5	4.3	0.3	0.5	2.3	13.3	28.4	38.1	(D)	11.4
Industry 2385-33, Contractors												
Total	-	58	4.2	26.8	4.0	6.5	22.4	39.2	6.0	45.1	0.6	3.6
Establishments with an average of—												
1 to 4 employees	E4	(Z)	(Z)	(0.2)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(0.5)	(Z)
5 to 9 employees	E4	4	(Z)	0.1	(Z)	(Z)	0.1	0.2	(Z)	0.3	(D)	(Z)
10 to 19 employees	E2	5	0.1	0.6	0.1	0.1	0.4	0.8	0.2	1.0	(D)	0.2
20 to 49 employees	E1	21	0.7	3.9	0.6	1.0	3.1	5.0	0.8	5.7	(Z)	0.8
50 to 99 employees	-	11	0.7	4.5	0.7	1.2	4.0	5.7	1.0	6.5	(0.1)	0.8
100 to 249 employees	-	13	(2.8)	(17.6)	(2.6)	(4.1)	(14.8)	(27.5)	(3.9)	(31.5)	(D)	(1.8)
250 to 499 employees	E4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
INDUSTRY 2386, LEATHER AND SHEEP LINED CLOTHING												
Total	E1	239	6.7	54.7	5.9	10.4	41.1	94.8	122.2	214.1	1.8	32.3
Establishments with an average of—												
1 to 4 employees	E9	87	0.1	1.1	0.1	0.2	0.8	1.8	2.1	3.9	(Z)	0.6
5 to 9 employees	E7	34	0.2	1.9	0.2	0.3	1.4	3.7	4.9	8.6	0.1	1.2
10 to 19 employees	E3	38	0.6	5.1	0.4	0.8	3.5	9.1	15.5	24.2	0.1	3.1
20 to 49 employees	E1	42	1.3	11.1	1.1	2.1	8.7	19.8	27.7	45.9	0.3	5.9
50 to 99 employees	-	20	1.4	12.2	1.3	2.2	9.0	18.8	32.5	51.3	0.2	8.0
100 to 249 employees	-	15	2.1	17.1	1.9	3.1	12.9	29.3	31.6	59.6	0.8	11.0
250 to 499 employees	-	3	0.9	6.2	0.9	1.7	4.8	12.4	7.9	19.6	0.1	2.6
Covered by administrative records[2]	E0	97	0.3	3.0	0.3	0.5	2.2	5.2	6.4	11.6	(Z)	1.7
INDUSTRY 2387, APPAREL BELTS												
Total	-	284	9.4	76.1	7.3	12.6	44.6	150.3	141.2	286.9	2.5	50.9
Establishments with an average of—												
1 to 4 employees	E8	78	0.2	1.4	0.2	0.2	0.9	2.8	3.1	5.9	0.1	0.9
5 to 9 employees	E5	42	0.3	2.3	0.2	0.4	1.4	4.0	4.0	8.0	0.1	1.0
10 to 19 employees	E1	45	0.6	5.5	0.5	0.8	3.4	10.3	10.4	20.7	0.1	2.1
20 to 49 employees	E1	66	2.0	15.7	1.6	2.7	10.2	29.0	26.9	54.7	0.5	5.9
50 to 99 employees	-	35	2.5	18.6	2.1	3.2	12.1	34.9	30.7	64.5	0.6	12.6
100 to 249 employees	-	14	(3.9)	(32.5)	(2.7)	(5.2)	(16.6)	(69.2)	(66.1)	(133.1)	(1.0)	(27.3)
250 to 499 employees	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	92	0.3	2.4	0.3	0.4	1.5	4.5	4.4	8.9	0.1	1.4

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2389, APPAREL AND ACCESSORIES, N.E.C.												
Total	-	312	8.1	58.7	6.7	11.6	38.6	109.7	96.6	205.5	4.2	46.6
Establishments with an average of—												
1 to 4 employees	E5	122	0.2	1.6	0.2	0.3	1.1	3.2	3.4	6.5	0.1	1.6
5 to 9 employees	E2	41	0.3	2.0	0.2	0.4	1.3	3.6	5.4	8.9	0.1	1.7
10 to 19 employees	E2	49	0.7	4.2	0.5	0.8	2.8	6.4	6.8	13.2	0.7	3.0
20 to 49 employees	-	60	1.8	12.1	1.5	2.4	8.3	21.4	17.6	38.5	0.3	5.8
50 to 99 employees	-	24	1.7	11.0	1.5	2.5	7.7	22.1	18.4	39.8	1.1	7.8
100 to 249 employees	-	11	1.5	12.3	1.3	2.5	9.2	23.1	20.2	42.3	1.3	11.3
250 to 499 employees	-	3	(1.9)	(13.5)	(1.5)	(2.7)	(8.2)	(30.0)	(26.9)	(56.2)	(0.7)	(12.3)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	82	0.2	1.4	0.2	0.3	1.0	2.7	2.8	5.4	0.1	1.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2371	**Fur goods:**										
	Entire industry	620	4.0	51.5	3.2	5.1	36.2	112.8	273.3	383.4	0.5
	Establishments with 75 percent specialization or more	595	3.6	46.8	2.8	4.5	32.4	101.3	265.1	363.6	(D)
2381	**Fabric dress and work gloves:**										
	Entire industry	132	10.9	69.0	9.9	18.0	56.3	160.9	153.2	312.4	3.5
	Establishments with 75 percent specialization or more	112	8.9	55.3	8.0	14.5	45.5	131.7	128.5	259.8	(D)
23811	Fabric dress gloves and mittens:										
	Establishments with this product class primary	6	0.4	2.7	0.4	0.7	2.1	8.9	8.2	16.8	(D)
	Establishments with 75 percent specialization or more in class	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23812	Work gloves and mittens:										
	Establishments with this product class primary	79	9.6	60.4	8.6	15.8	49.0	141.7	134.8	275.3	3.3
	Establishments with 75 percent specialization or more in class	64	7.4	47.0	6.6	12.0	37.9	113.0	106.6	219.7	(D)
2384	**Robes and dressing gowns:**										
	Entire industry	152	9.6	65.1	8.3	14.9	48.6	141.9	155.7	293.6	3.3
	Establishments with 75 percent specialization or more	100	5.5	38.9	4.7	8.2	27.9	97.6	119.9	214.7	1.7
2385	**Waterproof outer garments:**										
	Entire industry	167	12.0	89.4	10.1	17.9	61.6	194.4	157.4	348.6	5.6
	Establishments with 75 percent specialization or more	116	7.5	59.2	5.9	10.7	36.5	137.1	140.2	274.2	5.2
2386	**Leather and sheep lined clothing:**										
	Entire industry	239	6.7	54.7	5.9	10.4	41.1	94.8	122.2	214.1	1.6
	Establishments with 75 percent specialization or more	212	5.7	47.2	4.9	8.7	34.6	85.0	117.8	200.1	1.5
2387	**Apparel belts:**										
	Entire industry	284	9.4	76.1	7.3	12.6	44.6	150.3	141.2	286.9	2.5
	Establishments with 75 percent specialization or more	259	7.3	58.8	5.6	9.4	33.4	110.7	113.2	219.3	1.9
23871	Leather belts:										
	Establishments with this product class primary	85	6.0	50.0	4.4	7.9	27.8	102.7	96.1	194.4	1.6
	Establishments with 75 percent specialization or more in class	59	3.1	25.3	2.2	3.7	13.0	45.9	54.4	97.5	0.8
23872	Belts, other than leather:										
	Establishments with this product class primary	62	2.1	15.4	1.8	2.9	10.4	28.9	30.0	58.7	0.4
	Establishments with 75 percent specialization or more in class	54	1.7	12.4	1.5	2.3	8.3	23.5	23.3	46.5	0.4
2389	**Apparel and accessories, n.e.c.:**										
	Entire industry	312	8.1	56.7	6.7	11.6	38.6	109.7	98.6	205.5	4.2
	Establishments with 75 percent specialization or more	291	6.5	47.5	5.3	9.1	31.0	88.9	77.8	164.5	3.9

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2371	Fur goods									
	1977	383.4	356.4	1.7	25.3	100	358.5	356.4	2.1	99
	1972	220.0	212.3	.6	7.1	99	213.6	212.3	1.3	99
	1967	333.2	322.1	2.2	8.9	99	322.6	322.1	.5	100
2381	Fabric dress and work gloves									
	1977	312.5	255.1	26.1	31.3	91	[1]305.1	255.1	[1]50.0	[1]84
	1972	198.8	164.5	11.9	22.3	93	[1]190.5	164.5	[1]26.0	[1]86
	1967	176.6	132.3	12.8	31.5	91	[1]152.2	132.3	[1]19.9	[1]87
2384	Robes and dressing gowns									
	1977	293.5	226.5	27.5	39.5	89	243.3	226.5	16.8	93
	1972	202.8	164.5	12.8	25.5	93	169.6	164.5	5.1	97
	1967	200.2	169.8	7.1	23.3	96	178.4	169.8	8.6	95
2385	Waterproof outer garments									
	1977	348.8	304.8	30.0	14.0	91	338.8	304.8	34.0	90
	1972	332.1	303.9	9.5	18.7	97	321.6	303.9	17.7	94
	1967	371.9	341.2	17.1	13.6	95	365.4	341.2	24.2	93
2386	Leather and sheep lined clothing									
	1977	214.1	192.6	5.3	16.2	97	210.6	192.6	18.0	91
	1972	172.1	150.9	10.2	10.9	94	173.5	150.9	22.6	87
	1967	98.8	87.6	2.3	8.9	97	102.1	87.6	14.5	86
2387	Apparel belts									
	1977	287.0	234.9	33.3	18.8	88	244.3	234.9	9.4	96
	1972	257.5	227.0	15.2	15.4	94	234.1	227.0	7.1	97
	1967	130.2	106.4	13.6	10.2	89	109.1	106.4	2.7	98
2389	Apparel and accessories, n.e.c.									
	1977	205.6	166.7	19.0	19.9	90	175.7	166.7	9.0	95
	1972	116.8	103.1	2.7	11.0	97	123.2	103.1	20.1	84
	1967	119.5	102.9	4.1	12.5	96	121.2	102.9	18.3	85

n.e.c. Not elsewhere classified.

[1]Figures include shipments of fabric gloves made in knitting mills (primary products of industry 2259) as well as shipments of fabric gloves cut and sewn from purchased fabric. For 1972, industry 2381 shipments of fabric dress and work gloves represent 96 percent of those products shipped by cut-and-sew ships. In 1967, coverage ratio on this basis was 96 percent.

Table 5c. Industry-Product Analysis—Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Fur goods (SIC 2371)	Fabric dress and work gloves (SIC 2381)	Robes and dressing gowns (SIC 2384)	Waterproof outer garments (SIC 2385)	Leather and sheep lined clothing (SIC 2386)	Apparel belts (SIC 2387)	Apparel and accessories, n.e.c. (SIC 2389)	Other industries
	Total	(X)	383.4	312.5	293.5	348.8	214.1	287.0	205.6	(X)
	Primary products	(X)	356.4	255.1	226.5	304.8	192.6	234.9	166.7	(X)
	Secondary products	(X)	1.7	26.1	27.5	30.0	5.3	33.3	19.0	(X)
	Miscellaneous receipts	(X)	25.3	31.3	39.5	14.0	16.2	18.8	19.9	(X)
23710	Fur goods	358.5	356.4	-	-	-	(D)	-	-	(D)
2381-2259-	Fabric dress and work gloves	305.1	-	255.1	-	-	-	-	-	50.0
23811 22590	Fabric dress gloves and mittens	26.0	-	13.7	-	-	-	-	-	12.3
23812 22590	Fabric work gloves and mittens	263.0	-	226.5	-	-	-	-	-	36.5
23810	Fabric dress and work gloves, n.s.k.	16.0	-	14.8	-	-	-	-	-	1.2
23840	Robes and dressing gowns, except children's	243.3	-	-	226.5	(D)	-	-	-	(D)
23850	Raincoats and other waterproof outer garments	338.9	-	-	(D)	304.8	-	-	-	(D)
23860	Leather and sheeplined clothing	210.6	(D)	-	-	-	192.6	-	(D)	16.9
2387-	Apparel belts	244.3	-	-	-	-	-	234.9	(D)	(D)
23871	Leather belts	155.5	-	-	-	-	-	146.9	(D)	(D)
23872	Belts, other than leather	58.2	-	-	-	-	-	(D)	(D)	(D)
23870	Apparel belts, n.s.k.	30.6	-	-	-	-	-	(D)	-	(D)
23890	Apparel and accessories, n.e.c.	175.7	-	-	-	(D)	(D)	(D)	166.7	4.1
	Other shipments by 4-digit product group:									
2257-	Circular knit fabrics	(X)	-	(D)	-	(D)	-	-	-	(X)
2253-	Knit outerwear	(X)	-	-	-	-	-	-	2.0	(X)
2297-	Nonwoven fabrics	(X)	-	(D)	-	-	-	-	-	(X)
2311-	Men's and boys' suits and coats	(X)	-	-	-	(D)	(D)	-	-	(X)
2323-	Men's and boys' neckwear	(X)	-	-	-	(D)	-	(D)	(D)	(X)
2329-	Men's and boys' clothing, n.e.c.	(X)	-	-	(D)	(D)	-	-	-	(X)
2337-	Women's and misses' suits and coats	(X)	-	-	(D)	1.9	(D)	-	(D)	(X)
2339-	Women's and misses' outerwear, n.e.c.	(X)	-	-	(D)	-	-	-	(D)	(X)
2341-	Women's and children's underwear	(X)	-	-	(D)	-	-	-	-	(X)
2352-	Hats and caps, except millinery	(X)	-	-	(D)	-	-	-	(D)	(X)
2399-	Fabricated textile products, n.e.c.	(X)	-	-	-	(D)	-	(D)	(D)	(X)
3151-	Leather gloves and mittens	(X)	-	16.0	-	-	-	-	-	(X)
3171-	Women's handbags and purses	(X)	-	-	-	-	-	3.4	-	(X)
3172-	Personal leather goods	(X)	-	-	-	-	-	(D)	-	(X)
3842-	Surgical appliances and supplies	(X)	-	(D)	-	-	-	-	-	(X)
3949-	Sporting and athletic goods, n.e.c.	(X)	-	-	-	(D)	-	(D)	-	(X)
	Miscellaneous receipts:									
93000 08	Contract work	(X)	18.5	9.3	27.8	7.6	12.9	(D)	(D)	(X)
99980 05	Other miscellaneous receipts	(X)	.5	.2	(D)	(D)	(Z)	(D)	(D)	(X)
99989 06	Resales	(X)	6.4	21.7	(D)	(D)	3.2	10.9	11.0	(X)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2381-	3151 Leather gloves and mittens	(D)
2384-	2341 Women's and children's underwear	(D)
2385-	2311 Men's and boys' suits and coats	(D)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products--Con.	
2385-	2337 Women's and misses' suits and coats	(D)
2386-	2329 Men's and boys' clothing, n.e.c.	7.7
2387-	3171 Women's handbags and purses	5.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified.
n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972**

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	1977		1972, value of product shipments (million dollars)
		Number of companies with shipments of $100,000 or more	Value of product shipments[1] (million dollars)	
	FUR GOODS			
2371- --	Total	(NA)	358.5	213.6
23710 --	Fur goods:			
23710 11	Fur coats, capes, jackets, neck pieces, fur linings, and other fur garments, accessories, and trimmings	228	310.7	164.2
23710 02	Fur coats, capes, jackets, neck pieces, fur linings, and other fur garments, accessories, and trimmings, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	47.8	49.4

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
2381- -- 2259 pt.	FABRIC DRESS AND WORK GLOVES						
	As reported in the census of manufactures	.....	(NA)	(X)	305.0	(X)	190.5
	As reported in Current Industrial Reports MA-23D, Gloves and Mittens	.....	(NA)	(X)	297.6	(X)	177.0
23811 -- 22590 pt.	Dress and semidress gloves and mittens, including leather-and-fabric combinations:						
	As reported in the census of manufactures	1,000 dozens..	(NA)	1,611	26.0	2,123	20.6
23811 00	Made in cut-and-sew shops		13	986	16.1	1,290	10.6
22590 10	Made in knitting mills		5	625	9.9	834	10.0
	As reported in Current Industrial Reports MA-23D, Gloves and Mittens		(NA)	1,698	27.0	1,926	20.8
	Dress and semidress gloves and mittens:						
23811 11	All woven fabric		(NA)	104	1.1	([3])	([3])
23811 41	All knit fabric, seamed (cut and sewn)		(NA)	680	5.7	489	4.4
23811 43	Nylon		(NA)	328	(X)	305	(X)
23811 49	Fabric, except nylon		(NA)	352	(X)	184	(X)
22590 11	All knit fabric, seamless		(NA)	628	9.9	[3]1,203	[3]10.3
23811 15	Leather-and-fabric combinations		(NA)	189	8.8	234	6.1
23811 20	Dress and semidress gloves and mittens, n.s.k.		(NA)	97	1.5	(X)	(X)
23812 -- 22590 pt.	Work gloves and mittens, including leather-and-fabric combinations:						
	As reported in the census of manufactures		(NA)	32,351	263.0	29,519	157.4
23812 00	Made in cut-and-sew shops		70	28,339	246.2	28,269	148.6
22590 70	Made in knitting mills		9	**4,012	16.8	1,250	8.8
	As reported in Current Industrial Reports MA-23D, Gloves and Mittens		(NA)	31,659	278.0	29,735	156.2
	Work gloves and mittens:						
23812 10	All fabric		(NA)	28,270	222.8	27,657	125.0
23812 22	Single canton flannel		(NA)	8,533	(X)	9,160	(X)
23812 24	Double canton flannel		(NA)	5,351	(X)	4,723	(X)
23812 32	Fleeced cotton jersey		(NA)	4,096	(X)	4,130	(X)
23812 34	Circular knit cotton		(NA)	5,309	(X)	5,520	(X)
23812 38	Coated and partially coated fabric		(NA)	4,319	(X)	3,356	(X)
23812 47	Fabric, except single, double, fleeced, circular, or coated		(NA)	662	(X)	768	(X)
23812 15	Leather-and-fabric combinations		(NA)	1,499	38.6	2,078	31.2
23812 20	Work gloves and mittens, n.s.k.	1,000 dozens..	(NA)	1,890	16.6	(X)	(X)
23810 00	Fabric dress and work gloves, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	11.3	(X)	8.1
23810 02	Fabric dress and work gloves, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	4.7	(X)	4.4

See footnotes at end of table.

Table 6a. **Products and Product Classes—Quantity and Value of Shipments by All Producers: 1977 and 1972**—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	ROBES AND DRESSING GOWNS						
2384- --	Total		(NA)	(NA)	243.4	(NA)	169.6
23840 --	Robes and dressing gowns, except children's:						
23840 11	Men's and boys' robes and dressing gowns, including smoking jackets	1,000 dozens	12	600	46.6	373	20.6
	Women's, misses' and juniors' robes, dressing gowns, breakfast coats, brunch coats, and housecoats		48	1,541	157.6	1,809	118.6
23840 41	Terry cloth fabrics		15	*303	32.4	430	18.5
23840 52	Tufted fabrics		6	219	23.2	129	5.8
23840 61	All other fabrics	1,000 dozens	27	954	102.0	1,252	94.3
23840 00	Robes and dressing gowns, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	35.5	(X)	25.8
23840 02	Robes and dressing gowns, n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	3.7	(X)	4.6
	WATERPROOF OUTER GARMENTS						
2385- --	Total		(NA)	(X)	338.9	(X)	321.6
23850 --	Raincoats and other waterproof outer garments	1,000 dozens	(NA)	(X)	313.1	(X)	286.4
	Raincoats and raincapes:						
23850 40	As reported in the census of manufactures		70	1,061	255.4	1,268	215.6
	As reported in Current Industrial Reports MA-23A, Apparel		(NA)	1,007	261.9	1,302	225.0
	Men's and boys'		(NA)	445	105.0	441	72.8
23850 12	Men's, including uniforms		(NA)	(NA)	(X)	347	67.1
23850 03	Plastics (with or without fabric lining or trim)					27	(X)
23850 05	Rubberized and/or coated fabrics		(NA)	204	(X)	102	(X)
	Uncoated fabrics, including foam laminates					161	(X)
23850 07	With all weather liners such as pile, wool, etc. (zip-in, etc.)		(NA)	147	(X)	109	(X)
23850 08	Unlined or lightweight lined (rayon, acetate, cotton blends)					52	(X)
	Fabrics, n.s.k		(NA)	94	(X)	-	-
23850 21	Boys'		(NA)	(NA)	(X)	94	5.7
	Women's, misses', and juniors'		(NA)	530	153.2	768	144.2
23850 31	Plastics (with or without fabric lining or trim)		(NA)	(NA)	(X)	27	(X)
23850 33	Rubberized and/or coated fabrics		(NA)			123	(X)
	Uncoated fabrics, including foam laminates		(NA)	(NA)	(X)	490	(X)
23850 35	With all weather liners such as pile, wool, etc. (zip-in, etc.)		(NA)	(NA)	(X)	101	(X)
23850 37	Unlined or lightweight lined (rayon, acetate, cotton blends)		(NA)	(NA)	(X)	389	(X)
	Fabrics, n.s.k		(NA)	(NA)	(X)	128	(X)
	Girls', teenage girls', and children's		(NA)	32	3.7	93	8.0
23850 44	Plastics (with or without fabric lining or trim) and rubberized		(NA)				
23850 45	Uncoated fabrics, including foam laminates, lined and unlined		(NA)	32	(X)	93	(X)
23850 71	Baby pants and diaper covers, plastics and rubberized		6	4,170	25.6	7,094	22.2
23850 98	All other plastics or rubberized waterproof outer garments, including aprons, smocks, bibs, dress shields, bathing caps, etc. (except oil coated and rubber body)	1,000 dozens	8	722	4.8	(X)	14.6
23850 00	Waterproof outer garments, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	25.5	(X)	25.6
23850 02	Waterproof outer garments, n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	1.8	(X)	8.4
23859 93	Receipts for contract work on waterproof outer garments done for others on own materials		23	(X)	25.8	(X)	35.2
	LEATHER AND SHEEP LINED CLOTHING						
2386- --	Total		(NA)	(X)	210.6	(X)	173.5
23860 --	Leather and sheep lined clothing:						
	Leather coats and jackets:						
23860 15	Men's and boys'	1,000 dozens	47	154	94.1	186	83.6
23860 53	Women's, misses', and juniors's	1,000 dozens	43	*100	77.3	127	65.1
23860 98	All other leather clothing and sheep lined clothing, including children's		10	**42	9.4	(X)	3.8
23860 00	Leather and sheep lined clothing, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	18.2	(X)	14.8
23860 02	Leather and sheep lined clothing, n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	11.6	(X)	6.2

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	APPAREL BELTS[4]						
2387- --	Total	.....	(NA)	(X)	244.3	(X)	234.1
23871 --	Leather belts (for sale separately)	1,000 dozens..	(NA)	7,040	155.5	7,968	157.9
	Women's and children's:						
23871 13	Made for sale to apparel firms		26	**1,124	22.2	(S)	20.2
23871 15	Made for sale separately		15	318	10.1	749	14.8
23871 51	Men's and boys'		49	5,466	119.5	[5]4,992	115.8
23871 00	Leather belts, n.s.k.		(NA)	132	3.7	[5]358	7.1
23872 --	Belts, other than leather		(NA)	5,983	58.2	9,584	47.0
	Women's and children's:						
23872 13	Made for sale to apparel firms		35	**3,378	22.1	[5]5,754	22.0
23872 15	Made for sale separately		16	1,235	17.0	(S)	12.5
23872 51	Men's and boys'		23	715	13.2	711	10.2
23872 00	Belts, other than leather, n.s.k.	1,000 dozens..	(NA)	655	5.9	[6]469	2.3
23870 00	Apparel belts, n.s.k., typically for companies with 5 employees or more (see note)	.....	(NA)	(X)	21.7	(X)	21.1
23870 02	Apparel belts, n.s.k., typically for companies with less than 5 employees (see note)	.....	(NA)	(X)	8.9	(X)	8.1
	APPAREL AND ACCESSORIES, N.E.C.						
2389- --	Total	.....	(NA)	(X)	175.7	(X)	123.2
23890 --	Apparel, n.e.c.	.....	(NA)	(X)	175.7	(X)	123.2
23890 31	Garters, hose supporters, arm bands, and suspenders	1,000 dozens..	8	539.5	9.5	(D)	(D)
	Cotton handkerchiefs, except embroidered		11	6,468	27.0	15,577	28.0
23890 51	Men's and boys'		(NA)	(D)	(D)	12,809	19.2
23890 55	Women's and children's		(NA)	(D)	(D)	2,768	8.8
23890 59	All other handkerchiefs, including embroidered, of all fabrics		(NA)	(D)	(D)	(D)	(D)
23890 71	Garter belts:						
	As reported in the census of manufactures		(NA)	54	2.0	177	3.5
	As reported in Current Industrial Reports MA-23J, Brassieres, Girdles, and Allied Garments		(NA)	[7]80	(NA)	[7]210	(NA)
23890 81	Burial garments	1,000 dozens..	13	43	8.2	(X)	7.6
23890 91	Academic caps and gowns, and costumes, including theatrical	.....	28	(X)	57.4	(X)	26.5
23890 98	Ecclesiastical vestments, special garments for fraternal orders, except tailored clothing and uniforms, and all other clothing, n.e.c.	.....	21	(X)	26.6	(X)	14.9
23890 00	Apparel, n.e.c., n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	31.3	(X)	23.6
23890 02	Apparel, n.e.c., n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	5.4	(X)	6.2

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]Product code 23811 11 was included with product code 22590 11 to avoid disclosing operations of individual companies.

[4]Excludes belts made and sold as part of garments.

[5]20 to 40 percent of quantity was estimated.

[6]Quantity was estimated based on quantity-value relationship of all other items in this product class.

[7]Includes garter belts made in Puerto Rico, which are out of scope of Census of Manufactures.

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
23811, FABRIC DRESS GLOVES AND MITTENS, INCLUDING LEATHER-AND-FABRIC COMBINATION (23811 AND 2259 PT.)		
United States	26.1	10.6
Middle Atlantic Division:		
New York	7.9	4.5
23812, WORK GLOVES AND MITTENS, INCLUDING LEATHER-AND-FABRIC COMBINATION (23812 00 AND 22590 PT.)		
United States	263.0	148.6
Middle Atlantic Division:		
New York	2.2	(NA)
New Jersey	2.6	CC
Pennsylvania	7.6	CC
East North Central Division:		
Indiana	4.8	AA
Illinois	6.4	CC
Michigan	3.9	CC
West North Central Division:		
Missouri	23.0	CC
South Atlantic Division:		
Virginia	2.8	(NA)
North Carolina	51.9	FF
Georgia	16.1	11.3
East South Central Division:		
Mississippi	36.2	FF
West South Central Division:		
Texas	5.0	BB
23871, LEATHER BELTS		
United States	155.5	157.9
New England Division:		
Massachusetts	7.4	CC
Connecticut	23.3	EE
Middle Atlantic Division:		
New York	32.2	71.6
New Jersey	6.4	CC
Pennsylvania	8.3	CC
West South Central Division:		
Texas	21.0	5.5
Pacific Division:		
California	10.3	CC
23872, BELTS, OTHER THAN LEATHER		
United States	58.2	46.9
New England Division:		
Massachusetts	3.1	(NA)
Middle Atlantic Division:		
New York	37.4	32.8
Pennsylvania	3.6	(NA)
East North Central Division:		
Illinois	2.3	(NA)
South Atlantic Division:		
North Carolina	2.4	(NA)
Pacific Division:		
California	3.5	2.2

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available.

Table 6c. **Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977**

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
23710	Fur goods	358.5	281.0	271.8	236.2	208.5	213.6	322.6	321.4
2381-	Fabric dress and work gloves	[2]278.3	234.7	206.8	252.1	188.5	171.7	138.3	130.9
23811	Fabric dress gloves and mittens	[2]16.1	(12.0)	(10.7)	(10.1)	15.5	10.6	22.2	37.2
23812	Work gloves and mittens	[2]246.2	213.2	184.7	233.5	162.1	148.6	110.5	88.3
23810	Fabric dress and work gloves, n.s.k.	16.0	(S)	(11.4)	(8.5)	10.9	12.5	5.6	5.5
23840	Robes and dressing gowns, except children's	243.3	236.5	240.9	220.8	189.3	169.6	178.4	160.1
2385-	Waterproof outer garments	338.9	294.0	269.2	312.4	317.3	321.6	365.4	226.7
23859	Commission work on waterproof outer garments	25.8	([3])	([3])	-	-	35.2	37.6	23.9
23850	Raincoats and other waterproof outer garments	313.1	309.2	284.0	312.4	317.3	286.4	327.8	202.8
23860	Leather and sheeplined clothing	210.6	(246.2)	(258.9)	(240.0)	190.4	173.5	102.1	58.4
2387-	Apparel belts	244.3	192.1	191.2	186.8	215.3	234.1	109.1	92.4
23871	Leather belts	155.5	131.6	130.5	129.3	145.3	157.9	64.3	47.1
23872	Belts, other than leather	58.2	(53.1)	51.8	34.5	41.0	47.0	26.6	32.5
23870	Apparel belts, n.s.k.	30.6	(S)	(8.8)	(23.0)	29.0	29.2	18.2	12.8
23890	Apparel and accessories, n.e.c.	175.7	189.6	157.2	(147.6)	125.7	123.2	121.2	103.1

- Represents zero. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (D) Withheld because estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have assoicated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]For purposes of comparability which prior years annual survey of manufactures data, value of shipments of knitting mills (industry group 225) has been excluded. (See tables 5b and 6a.)

[3]Withheld because estimated figure is negative. This is consequence of using difference method of estimation (see Estimating Procedures in appendix B) and of improved establishment reporting that resulted in changing classification of shipments from n.s.k. code for 1972 Census to specified 5-digit product classes for this year. Four-digit total is best estimate, even though smaller than sum of 5-digit values.

Table 7. **Materials Consumed by Kind: 1977 and 1972**

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2381, FABRIC DRESS AND WORK GLOVES					
	Materials, parts, containers, and supplies	.....	(X)	131.8	(X)	78.4
220129	Broad woven fabrics	Mil. lin. yd...	**46.2	48.3	51.5	24.9
225078	Purchased knitted fabric, including transfers from other plants of same company...	Million lb.....	**20.7	27.9	(NA)	17.1
311100	Finished leather	Mil. sq. ft....	*30.1	13.9	39.2	15.8
970099	All other materials and components, parts, containers, and supplies	.....	(X)	29.4	(X)	9.6
971000	Materials, parts, containers, and supplies, n.s.k.[2]	.....	(X)	12.3	(X)	11.0
	INDUSTRY 2384, ROBES AND DRESSING GOWNS					
2384--	Materials, containers, and supplies	.....	(X)	119.3	(X)	77.9
220129	Broadwoven fabrics	Mil. lin. yd...	*56.0	77.4	77.0	54.1
225078	Purchased knitted fabrics, including transfers from other plants of same company...	Million lb.....	9.8	20.8	6.9	7.1
970099	All other materials, containers, and supplies	.....	(X)	10.4	(X)	4.7
971000	Materials, containers, and supplies, n.s.k.[2]	.....	(X)	10.7	(X)	12.0
	INDUSTRY 2385, WATERPROOF OUTER GARMENTS					
	Materials, containers, and supplies	.....	(X)	105.2	(X)	111.0
220129	Broad woven fabrics	Mil. lin. yd...	(S)	51.6	38.6	52.2
225078	Purchased knitted fabrics, including transfers from other plants of same company..	Million lb.....	(S)	3.3	3.2	6.7
970099	All other materials and components, parts, containers, and supplies	.....	(X)	21.7	(X)	18.3
971000	Materials, containers, and supplies, n.s.k.[2]	.....	(X)	28.6	(X)	33.8
	INDUSTRY 2386, LEATHER AND SHEEP LINED CLOTHING					
	Materials, containers, and supplies	.....	(X)	109.6	(X)	77.9
220129	Broadwoven fabrics	Mil. lin. yd...	1.3	4.1	7.7	9.5
225078	Purchased knitted fabrics, including transfers from other plants of same company..	Million lb.....	2.8	2.7	.8	1.4
311100	Finished leather	Mil. sq. ft....	*86.7	70.0	85.4	47.5
970099	All other materials and components, parts, containers, and supplies	.....	(X)	13.5	(X)	8.4
971000	Materials, containers, and supplies, n.s.k.[2]	.....	(X)	19.3	(X)	11.1
	INDUSTRY 2387, APPAREL BELTS					
	Materials, containers, and supplies	.....	(X)	122.7	(X)	115.8
220129	Broadwoven fabrics	Mil. lin. yd...	*3.0	4.3	6.9	5.5
225078	Purchased knitted fabrics, including transfers from other plants of same company...	Million lb.....	**1.6	1.7	(X)	([3])
311100	Finished leather	Mil. sq. ft....	*45.4	60.8	72.3	61.4
970099	All other materials and components, parts, containers, and supplies	.....	(X)	32.3	(X)	[2]27.0
971000	Materials, containers, and supplies, n.s.k.[2]	.....	(X)	23.6	(X)	21.9
	INDUSTRY 2389, APPAREL AND ACCESSORIES, N.E.C.					
	Materials, containers, and supplies	.....	(X)	79.1	(X)	50.3
220129	Broadwoven fabrics	Mil. lin. yd...	47.8	37.8	65.8	28.2
225078	Purchased knitted fabrics, including transfers from other plants of same company...	Million lb.....	(D)	(D)	(NA)	1.0
311100	Finished leather	Mil. sq. ft....	(D)	(D)	(X)	5.4
970099	All other materials and components, parts, containers, and supplies	.....	(X)	16.7		
971000	Materials, containers, and supplies, n.s.k.[2]	.....	(X)	19.5	(X)	15.7

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[3]For 1972, material code 225078 was included with material code 970099.

Miscellaneous Fabricated Textile Products

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DESCRIPTION OF INDUSTRIES

MISCELLANEOUS FABRICATED TEXTILE PRODUCTS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2391	Curtains and Draperies
2392	Housefurnishings, N.E.C.
2393	Textile Bags
2394	Canvas and Related Products
2395	Pleating and Stitching
2396	Automotive and Apparel Trimmings
2397	Schiffli Machine Embroideries
2399	Fabricated Textile Products, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishments as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2391, CURTAINS AND DRAPERIES

This industry comprises establishments primarily engaged in the manufacture of curtains and draperies from purchased materials. Establishments primarily engaged in the manufacture of lace curtains on lace machines are classified in industry 2292.

The total value of shipments for establishments classified in the Curtains and Draperies industry amounted to $1,013.1 million in 1977, an increase of 34 percent from 1972. The value of shipments of products classified as primary to the industry was $936.7 million, an increase of 49 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $407.3 million in 1977, was 34 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 31.7 thousand employees, a decrease of 7 percent from 1972. The leading States in employment were North Carolina, California, Massachusetts, and New York, accounting for approximately 45 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 50 percent of the industry's employment although there has been some shift in the relative importance of individual States.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 13.4 percent of total value of shipments.

INDUSTRY 2392, HOUSEFURNISHINGS, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of housefurnishings such as blankets, bedspreads, sheets, tablecloths, and towels from purchased materials. Establishments primarily engaged in the manufacture of curtains and draperies are classified in industry 2391. Establishments producing housefurnishings primarily of fabric woven at the same establishment are classified in industries 2211, 2221, or 2231, according to fiber.

The total value of shipments for establishments classified in the Housefurnishings, N.E.C. industry amounted to $2,294.0 million in 1977, an increase of 50 percent from 1972. The value of shipments of products classified as primary to the industry was $3,145.4 million, an increase of 48 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $782.9 million in 1977, was 33 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 47.5 thousand employees, a decrease of 6 percent from 1972. The leading States in employment were New York, North Carolina, Georgia, and South Carolina, accounting for approximately 45 percent of the industry's 1977 employment. Data for South Carolina have

been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 7.5 percent of total value of shipments.

INDUSTRY 2393, TEXTILE BAGS

This industry comprises establishments primarily engaged in the manufacture of shipping and other industrial bags from purchased fabric. Establishments primarily engaged in the manufacture of plastic bags are classified in industry 2643; laundry, wardrobe, shoe, and other textile housefurnishing bags in industry 2392; and luggage in industry 3161.

The total value of shipments for establishments classified in the Textile Bags industry amounted to $321.8 million in 1977, an increase of 26 percent from 1972. The value of shipments of products classified as primary to the industry was $277.8 million, an increase of 20 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $122.2 million in 1977, was 64 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 8.2 thousand employees, an increase of 3 percent from 1972. The leading States in employment were New York, North Carolina, California, and Missouri, accounting for approximately 35 percent of the industry's 1977 employment. Data for Missouri have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6.6 percent of total value of shipments.

INDUSTRY 2394, CANVAS AND RELATED PRODUCTS

This industry comprised establishments primarily engaged in the manufacture of awnings, tents, and related products from purchased fabric. Establishments primarily engaged in the manufacture of canvas bags are classified in industry 2393.

The total value of shipments for establishments classified in the Canvas and Related Products industry amounted to $486.8 million in 1977, an increase of 76 percent from 1972. The value of shipments of products classified as primary to the industry was $465.6 million, an increase of 71 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $237.4 million in 1977, was 82 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 13.9 thousand employees, an increase of 7 percent from 1972. The leading States in employment were New York, California, Florida, and Ohio, accounting for approximately 35 percent of the industry's 1977 employment. This represents a shift from 1972 when California, New York, Missouri, and Ohio accounted for approximately 35 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 11.3 percent of total value of shipments.

INDUSTRY 2395, PLEATING AND STITCHING

This industry comprises establishments primarily engaged in pleating, decorative and novelty stitching, and tucking for the trade. Establishments primarily engaged in performing similar services for individuals are classified in service industries. Establishments primarily engaged in the manufacture of trimmings are classified in industry 2396.

The total value of shipments for establishments classified in the Pleating and Stitching industry amounted to $635.0 million in 1977, an increase of 106 percent from 1972. The value of shipments of products classified as primary to the industry was $572.9 million, an increase of 118 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $285.6 million in 1977, was 63 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 16.4 thousand employees, a decrease of 2 percent from 1972. The leading States in employment were New York, California, New Jersey, and North Carolina, accounting for approximately 60 percent of the industry's 1977 employment. This represents a shift from 1972 when New York, California, New Jersey, and Pennsylvania accounted for approximately 70 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 13.0 percent of total value of shipments.

INDUSTRY 2396, AUTOMOTIVE AND APPAREL TRIMMINGS

This industry comprises establishments primarily engaged in the manufacture of automotive trimmings and apparel findings and related products.

The total value of shipments for establishments classified in the Automotive and Apparel Trimmings industry amounted to $2,165.7 million in 1977, an increase of 91 percent from 1972. The value of shipments of products classified as primary to the industry was $2,191.1 million, an increase of 91 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $1,000.1 million in 1977, was 88 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 30.9 thousand employees, an increase of 11 percent from 1972. The leading States in employment were Michigan, New York, Ohio, and Massachusetts, accounting for approximately 80 percent of the industry's 1977 employment. Data for Ohio have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4.6 percent of total value of shipments.

INDUSTRY 2397, SCHIFFLI MACHINE EMBROIDERIES

This industry comprises establishments primarily engaged in the manufacture of Schiffli machine embroideries.

The total value of shipments for establishments classified in the Schiffli Machine Embroideries industry amounted to $158.0 million in 1977, an increase of 31 percent from 1972. The value of shipments of products classified as primary to the industry was $146.3 million, an increase of 47 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $96.7 million in 1977, was 28 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 6.0 thousand employees, an increase of 9 percent from 1972. The leading States in employment were New Jersey, Texas, South Carolina, and New York, accounting for approximately 75 percent of the industry's 1977 employment. Data for Texas and South Carolina have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 13.6 percent of total value of shipments.

INDUSTRY 2399, FABRICATED TEXTILE PRODUCTS, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of fabricated textile products not elsewhere classified.

The total value of shipments for establishments classified in the Fabricated Textile Products, N.E.C. industry amounted to $1,145.4 million in 1977, an increase of 58 percent from 1972. The value of shipments of products classified as primary to the industry was $1,158.9 million, an increase of 57 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $525.9 million in 1977, was 66 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 30.8 thousand employees, a decrease of 2 percent from 1972. The leading States in employment were Georgia, New York, Tennessee, and California, accounting for approximately 35 percent of the industry's 1977 employment. This represents a shift from 1972 when New York, Tennessee, California, and Illinois accounted for approximately 35 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 8.8 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2391, CURTAINS AND DRAPERIES																
1977 Census--	1 650	1 712	324	31.7	224.7	27.2	47.9	163.6	407.3	605.5	1 013.1	7.2	(NA)	151.2	95	93
1976 ASM[5] ---	(NA)	(NA)	(NA)	24.2	173.4	21.9	39.0	123.6	329.2	468.5	786.6	10.0	77.9	121.4	(NA)	(NA)
1975 ASM[5] ---	(NA)	(NA)	(NA)	25.6	164.9	23.0	41.9	118.3	280.1	446.7	736.5	9.6	(S)	108.5	(NA)	(NA)
1974 ASM[5] ---	(NA)	(NA)	(NA)	26.8	151.3	24.1	41.9	109.5	285.5	459.2	749.4	9.0	(S)	106.3	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	35.2	177.8	30.9	56.5	133.3	313.7	513.7	806.4	8.3	(S)	115.9	(NA)	(NA)
1972 Census--	1 540	1 593	352	33.9	167.1	29.5	54.9	124.7	302.3	461.3	754.9	9.5	(S)	101.1	93	93
1971 ASM----	(NA)	(NA)	(NA)	30.5	140.8	26.7	47.8	107.3	272.4	384.2	641.1	6.1	67.7	93.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	30.0	124.5	26.3	47.8	94.4	233.2	328.9	588.3	7.3	64.0	89.0	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	31.0	138.5	27.2	53.0	107.3	251.6	300.2	545.6	6.1	(S)	67.9	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	28.3	124.7	24.9	48.3	97.5	214.9	275.3	491.9	9.9	(S)	54.9	(NA)	(NA)
1967 Census--	1 393	1 430	273	25.7	100.5	22.7	42.6	78.1	178.2	241.5	418.7	3.9	(S)	44.4	97	95
1966 ASM----	(NA)	(NA)	(NA)	26.6	95.6	23.8	42.4	74.5	188.7	241.9	416.2	3.8	(NA)	33.8	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	24.4	87.9	21.2	40.7	66.6	145.1	203.7	349.5	3.7	(NA)	32.7	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	23.0	80.8	19.8	37.5	59.5	150.3	190.7	338.7	3.0	27.9	32.0	(NA)	(NA)
1963 Census--	1 092	1 121	255	22.0	75.1	19.0	35.8	56.4	132.0	182.4	313.0	2.9	24.4	34.7	96	95
INDUSTRY 2392, HOUSE FURNISHINGS, N.E.C.																
1977 Census--	980	1 051	403	47.5	366.4	39.8	75.4	260.0	782.9	1 541.4	2 294.0	26.9	(NA)	393.0	89	61
1976 ASM----	(NA)	(NA)	(NA)	43.8	316.1	36.1	68.2	221.4	712.0	1 261.9	1 954.5	31.5	310.6	322.5	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	40.8	284.7	33.7	64.7	199.3	621.6	1 075.3	1 703.6	30.5	293.9	300.0	(NA)	(NA)
1974 ASM[6] ---	(NA)	(NA)	(NA)	46.8	288.2	38.9	74.0	204.2	678.5	987.3	1 649.6	22.6	278.3	293.8	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	50.7	296.4	42.9	82.3	210.6	670.5	992.5	1 646.5	22.7	302.8	285.0	(NA)	(NA)
1972 Census--	1 058	1 111	412	50.3	281.9	42.2	82.5	194.0	585.2	961.0	1 526.9	29.9	270.7	250.1	86	58
1971 ASM----	(NA)	(NA)	(NA)	48.3	248.7	40.3	78.7	175.5	465.4	769.3	1 234.7	23.3	188.6	198.3	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	48.2	243.0	40.2	79.8	169.5	461.8	737.6	1 196.4	39.1	171.5	192.1	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	48.1	222.9	40.3	78.7	160.9	425.8	726.4	1 146.6	24.7	188.1	176.9	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	46.8	203.6	39.6	76.2	146.9	380.4	595.7	970.1	15.4	(S)	135.3	(NA)	(NA)
1967 Census--	1 189	1 228	421	46.3	196.3	39.3	76.4	144.5	353.7	608.1	962.8	11.9	(S)	132.5	88	52
1966 ASM----	(NA)	(NA)	(NA)	44.7	181.5	37.9	73.4	129.5	336.7	576.5	903.8	15.4	(NA)	137.7	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	41.9	163.1	35.3	69.0	118.5	302.3	511.0	811.2	14.9	(NA)	110.4	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	40.3	153.3	34.3	68.0	110.6	303.9	448.6	745.2	9.3	89.0	101.9	(NA)	(NA)
1963 Census--	1 205	1 239	422	39.7	142.8	33.6	63.9	102.7	285.8	433.1	716.7	8.4	81.4	98.2	88	50
INDUSTRY 2393, TEXTILE BAGS																
1977 Census--	211	228	90	8.2	66.7	6.8	12.9	46.8	122.2	200.5	321.8	5.8	(NA)	59.4	82	84
1976 ASM[5] ---	(NA)	(NA)	(NA)	5.8	52.9	4.6	9.0	34.2	128.6	177.7	306.8	6.3	40.3	48.6	(NA)	(NA)
1975 ASM[5] ---	(NA)	(NA)	(NA)	5.8	51.0	4.7	9.3	33.2	113.8	170.1	287.9	6.4	38.5	47.9	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	7.8	56.6	6.6	12.6	39.4	133.9	233.1	362.8	7.2	41.2	67.3	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	9.2	50.7	7.9	14.2	36.0	90.6	215.7	303.6	5.3	41.0	49.9	(NA)	(NA)
1972 Census--	188	208	94	7.9	44.0	6.7	12.7	31.4	74.5	182.2	255.1	5.5	38.5	38.6	93	90
1971 ASM----	(NA)	(NA)	(NA)	7.7	42.8	6.6	12.5	30.1	83.2	147.6	230.0	3.1	40.1	32.5	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	8.5	41.3	7.2	13.4	29.4	73.5	155.9	230.5	4.5	42.5	32.7	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	9.8	42.9	8.6	16.2	32.0	85.2	212.3	299.3	1.8	53.2	33.7	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	10.0	43.2	8.9	17.3	33.5	87.3	221.0	309.3	2.0	49.1	36.9	(NA)	(NA)
1967 Census--	177	198	97	9.1	38.0	8.1	15.5	28.7	88.5	204.6	291.1	1.9	42.7	32.9	94	89
1966 ASM----	(NA)	(NA)	(NA)	6.9	27.9	5.9	12.2	23.3	60.2	147.0	205.0	4.1	(NA)	26.2	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	7.0	28.7	6.0	12.1	23.4	57.8	145.8	204.7	1.5	(NA)	26.1	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	7.0	27.0	5.9	11.8	19.7	56.0	130.6	183.4	1.2	27.0	31.0	(NA)	(NA)
1963 Census--	175	192	88	7.2	28.3	6.1	11.9	20.7	56.5	144.6	200.4	1.9	26.2	28.3	88	85
INDUSTRY 2394, CANVAS AND RELATED PRODUCTS																
1977 Census--	969	1 003	148	13.9	121.6	11.0	19.3	75.1	237.4	254.2	486.8	8.4	(NA)	101.0	93	92
1976 ASM[5] ---	(NA)	(NA)	(NA)	10.3	82.5	8.6	15.6	54.5	146.8	161.2	301.7	6.0	52.2	65.6	(NA)	(NA)
1975 ASM[5] ---	(NA)	(NA)	(NA)	10.4	74.4	8.7	15.4	50.0	133.8	146.0	284.3	7.1	49.6	59.1	(NA)	(NA)
1974 ASM[5] ---	(NA)	(NA)	(NA)	11.2	80.2	9.2	16.6	52.4	136.6	155.7	293.2	3.2	45.9	72.2	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	14.0	84.7	11.2	20.8	53.5	154.7	170.9	321.8	3.8	43.9	80.0	(NA)	(NA)
1972 Census--	845	860	146	12.9	75.9	10.3	19.3	49.2	130.3	151.1	276.4	4.0	41.9	68.9	95	88
1971 ASM----	(NA)	(NA)	(NA)	12.7	69.7	10.3	17.7	47.3	114.7	132.4	245.6	3.9	30.0	58.8	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	13.0	67.4	10.5	18.6	46.2	117.0	133.5	245.4	2.8	31.0	52.3	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	14.2	74.2	11.3	21.5	51.0	119.3	142.7	265.1	6.4	30.7	41.7	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	13.8	70.9	11.2	21.9	48.9	119.3	147.5	270.2	4.4	29.2	39.4	(NA)	(NA)
1967 Census--	845	860	147	15.2	68.5	12.9	24.0	48.7	126.9	148.1	273.6	3.4	26.4	43.3	94	95
1966 ASM----	(NA)	(NA)	(NA)	14.5	58.6	11.7	22.1	39.5	102.3	124.4	225.3	2.5	(NA)	46.0	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	13.1	52.4	10.4	19.7	35.3	88.0	109.4	197.0	3.0	(NA)	37.9	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	11.4	47.2	9.2	18.3	32.1	82.9	97.9	177.6	1.8	(NA)	31.1	(NA)	(NA)
1963 Census--	869	881	124	11.2	44.6	9.0	17.6	30.6	73.5	93.1	166.4	2.1	25.2	28.2	92	91

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2395, PLEATING AND STITCHING																
1977 Census--	770	780	207	16.4	132.8	13.5	23.4	90.2	285.6	352.4	635.0	9.3	(NA)	84.6	96	95
1976 ASM[5]---	(NA)	(NA)	(NA)	12.0	105.1	9.8	17.8	73.9	199.6	191.9	391.6	6.5	52.8	48.4	(NA)	(NA)
1975 ASM[5]---	(NA)	(NA)	(NA)	13.7	99.6	11.5	21.6	70.1	182.6	156.9	339.3	4.2	(S)	41.5	(NA)	(NA)
1974 ASM[5]---	(NA)	(NA)	(NA)	12.9	84.2	11.3	19.4	60.7	159.7	141.8	301.0	5.4	(S)	39.5	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	15.8	85.4	14.0	24.9	62.7	164.2	130.1	291.3	4.2	(S)	35.1	(NA)	(NA)
1972 Census--	894	897	205	16.7	89.2	14.7	26.3	65.3	174.7	142.2	308.2	3.2	(S)	40.6	88	98
1971 ASM----	(NA)	(NA)	(NA)	10.6	54.7	9.1	16.4	42.1	89.9	61.3	151.9	3.6	24.3	11.3	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	13.0	52.6	11.9	22.1	42.8	89.6	60.4	150.3	1.5	21.8	11.0	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	18.4	86.7	17.3	33.3	71.8	139.2	180.0	319.1	1.4	(S)	14.4	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	13.5	59.3	12.6	22.9	49.7	92.9	51.9	149.3	0.9	(S)	8.6	(NA)	(NA)
1967 Census--	1 104	1 107	207	13.5	54.3	12.5	22.2	45.8	90.2	49.2	139.3	1.5	(S)	7.5	97	95
1966 ASM----	(NA)	(NA)	(NA)	13.4	46.7	11.6	21.2	36.5	85.4	43.2	123.0	1.1	(NA)	3.8	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	14.7	53.1	13.2	25.2	43.8	96.9	47.8	145.7	2.8	(NA)	4.4	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	18.1	58.9	15.7	29.9	49.8	104.3	56.8	161.7	1.3	14.6	11.0	(NA)	(NA)
1963 Census--	1 315	1 316	245	16.4	55.5	14.7	28.0	46.3	95.2	55.1	150.2	2.8	12.8	10.9	97	98
INDUSTRY 2396, AUTOMOTIVE AND APPAREL TRIMMINGS																
1977 Census--	684	714	188	30.9	476.4	26.3	51.7	373.9	1 000.1	1 162.5	2 165.7	36.1	(NA)	194.2	98	96
1976 ASM----	(NA)	(NA)	(NA)	28.2	383.3	23.6	43.9	298.2	762.6	903.3	1 658.5	20.5	(S)	187.1	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	24.4	292.6	19.9	37.0	221.7	551.5	733.6	1 283.1	20.7	(S)	154.9	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	25.2	288.1	20.3	38.7	214.6	524.8	712.8	1 234.4	38.5	(S)	125.3	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	28.4	303.8	24.0	48.4	231.6	585.2	714.8	1 289.4	26.7	(S)	123.1	(NA)	(NA)
1972 Census--	644	668	203	27.6	266.6	23.2	45.3	201.8	530.8	614.1	1 133.0	10.4	194.3	103.1	98	95
1971 ASM----	(NA)	(NA)	(NA)	29.9	242.1	24.2	45.4	174.2	501.9	607.2	1 105.6	7.0	159.0	99.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	29.9	216.0	23.9	44.9	151.1	405.9	516.0	917.7	9.3	158.1	102.1	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	32.6	226.4	28.3	51.7	173.5	412.5	536.9	953.9	13.4	148.5	95.3	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	32.5	215.3	28.3	54.0	167.2	384.7	560.4	941.3	8.4	143.1	93.4	(NA)	(NA)
1967 Census--	762	780	244	30.6	181.9	25.9	48.5	136.8	334.8	448.6	777.4	13.4	139.0	81.2	98	93
1966 ASM----	(NA)	(NA)	(NA)	28.0	159.6	22.3	45.4	119.6	279.6	459.4	741.8	9.7	(NA)	71.2	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	28.8	158.4	23.6	47.7	121.3	296.5	465.3	752.8	15.8	(NA)	72.4	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	23.3	126.5	18.4	39.6	96.8	242.6	355.3	592.7	11.2	30.9	57.9	(NA)	(NA)
1963 Census--	746	756	213	24.5	122.6	20.8	40.1	94.2	227.8	343.5	570.6	8.3	86.8	55.9	98	97
INDUSTRY 2397, SCHIFFLI MACHINE EMBROIDERIES																
1977 Census--	357	363	58	6.0	56.3	5.3	10.4	42.5	96.7	62.0	158.0	3.3	(NA)	10.1	97	98
1976 ASM----	(NA)	(NA)	(NA)	6.0	49.7	5.4	12.0	38.4	92.6	59.9	151.8	3.7	35.5	7.7	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	5.6	44.4	5.0	11.2	33.9	88.5	52.0	140.4	0.7	33.0	7.1	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	5.3	39.8	4.7	10.3	29.9	78.6	44.7	123.9	4.1	33.3	5.7	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	5.3	39.8	4.8	10.3	30.4	77.1	50.4	127.4	0.7	56.6	7.4	(NA)	(NA)
1972 Census--	466	451	56	5.5	38.9	4.9	10.1	29.4	75.0	46.0	120.5	2.2	56.9	6.4	96	99
1971 ASM----	(NA)	(NA)	(NA)	5.5	38.3	4.9	10.8	30.1	68.7	37.2	105.2	5.3	49.0	4.5	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	5.0	31.3	4.5	9.6	25.5	58.1	32.9	91.2	1.8	45.0	4.5	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	4.7	32.0	4.1	8.4	24.9	63.4	47.3	111.6	1.2	43.7	5.1	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	4.5	27.8	4.1	8.7	22.8	55.6	38.4	94.1	0.2	38.8	5.1	(NA)	(NA)
1967 Census--	605	608	61	5.4	30.5	5.0	10.4	25.1	59.5	40.3	99.6	0.5	54.3	5.6	98	99
1966 ASM----	(NA)	(NA)	(NA)	5.9	29.3	5.1	11.1	23.6	51.1	43.9	94.8	2.8	(NA)	4.2	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	6.1	29.0	5.5	10.9	23.8	50.7	45.6	96.0	2.7	(NA)	5.5	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	6.0	30.9	5.4	11.9	26.3	58.0	42.2	100.1	0.3	53.2	5.8	(NA)	(NA)
1963 Census--	755	759	68	6.1	30.5	5.5	11.9	26.0	55.4	42.2	97.4	2.4	55.1	5.9	76	89
INDUSTRY 2399, FABRICATED TEXTILE PRODUCTS, N.E.C.																
1977 Census--	845	877	271	30.8	261.4	25.7	46.5	185.2	525.9	628.2	1 145.4	19.0	(NA)	164.8	94	89
1976 ASM----	(NA)	(NA)	(NA)	29.7	241.0	25.1	44.6	171.2	533.0	592.5	1 117.1	18.9	197.5	160.6	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	29.5	220.5	25.1	44.3	159.3	479.4	557.2	1 032.6	24.1	190.6	152.4	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	33.7	226.1	28.3	50.5	163.6	445.6	553.0	991.7	20.5	197.9	157.9	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	33.7	212.2	28.7	54.4	157.6	396.5	504.6	892.7	32.7	176.2	155.7	(NA)	(NA)
1972 Census--	796	822	286	31.4	175.3	27.1	50.1	129.8	315.5	408.0	724.7	25.9	220.8	105.7	89	82
1971 ASM----	(NA)	(NA)	(NA)	36.2	194.3	31.1	58.3	146.0	432.2	472.3	901.1	51.6	(NA)	117.1	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	35.5	184.4	30.8	57.3	138.8	382.8	442.0	821.2	41.4	186.9	108.6	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	30.6	154.3	26.4	48.8	118.2	327.1	414.1	736.9	29.3	135.8	93.0	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	27.5	128.2	23.9	45.8	97.8	254.0	355.6	605.3	25.8	114.9	78.8	(NA)	(NA)
1967 Census--	799	819	245	26.8	114.5	23.3	44.4	86.7	224.6	311.2	535.1	19.6	95.0	67.5	89	83
1966 ASM----	(NA)	(NA)	(NA)	28.4	109.5	24.4	47.8	81.0	208.0	271.1	477.4	8.1	(NA)	60.3	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	25.7	96.7	22.0	41.7	70.8	183.0	252.0	432.6	4.5	(NA)	54.7	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	22.6	86.0	18.7	35.8	61.9	156.1	233.2	390.8	4.4	57.5	48.5	(NA)	(NA)
1963 Census--	1 027	1 044	240	21.4	79.3	17.9	34.4	57.0	145.2	196.2	342.3	4.5	54.8	48.7	86	75

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2391, CURTAINS AND DRAPERIES											
1977 Census--	7 099	(NA)	86	1 758	3.41	59	81	(NA)	12 870	55	8.50
1976 ASM----	7 165	3 219	90	1 780	3.16	59	81	9	13 603	52	8.44
1975 ASM----	6 441	(S)	89	1 821	2.82	60	83	(S)	10 941	58	6.88
1974 ASM----	5 645	(S)	89	1 738	2.61	61	81	(S)	10 652	52	6.81
1973 ASM----	5 051	(S)	87	1 828	2.35	63	85	(S)	8 911	56	5.55
1972 Census--	4 929	(S)	87	1 861	2.27	61	83	(S)	8 917	55	5.50
1971 ASM----	4 616	2 219	87	1 790	2.24	59	81	10	8 931	51	5.69
1970 ASM----	4 150	2 133	87	1 817	1.97	55	77	10	7 773	53	4.87
1969 ASM----	4 467	(S)	87	1 948	2.02	55	80	(S)	8 116	55	4.74
1968 ASM----	4 406	(S)	87	1 939	2.01	55	81	(S)	7 593	58	4.44
1967 Census--	3 910	(S)	88	1 876	1.83	57	81	(S)	6 933	56	4.18
1966 ASM----	3 593	(NA)	89	1 781	1.75	58	81	(NA)	7 093	50	4.45
1965 ASM----	3 602	(NA)	86	1 919	1.63	58	83	(NA)	5 946	60	3.56
1964 ASM----	3 513	1 213	86	1 893	1.58	56	80	8	6 534	53	4.00
1963 Census--	3 413	1 109	86	1 884	1.57	58	82	7	6 000	56	3.68
INDUSTRY 2392, HOUSE FURNISHINGS, N.E.C.											
1977 Census--	7 713	(NA)	83	1 894	3.44	67	83	(NA)	16 478	46	10.38
1976 ASM----	7 216	7 091	82	1 889	3.24	64	80	15	16 255	44	10.43
1975 ASM----	6 977	7 203	82	1 919	3.08	63	79	17	15 235	45	9.60
1974 ASM----	6 158	5 946	83	1 902	2.75	59	77	16	14 497	42	9.16
1973 ASM----	5 846	5 972	84	1 918	2.55	60	78	18	13 224	44	8.14
1972 Census--	5 604	5 381	83	1 954	2.35	62	81	17	11 634	48	7.09
1971 ASM----	5 149	3 904	83	1 952	2.22	62	82	15	9 635	53	5.91
1970 ASM----	5 041	3 558	83	1 985	2.12	61	81	14	9 580	52	5.78
1969 ASM----	4 634	3 910	83	1 952	2.04	63	82	16	8 852	52	5.41
1968 ASM----	4 350	(S)	84	1 924	1.92	61	82	(S)	8 128	53	4.99
1967 Census--	4 239	(S)	84	1 944	1.89	63	83	(S)	7 639	55	4.62
1966 ASM----	4 060	(NA)	84	1 936	1.76	63	83	(NA)	7 532	53	4.58
1965 ASM----	3 892	(NA)	84	1 954	1.71	62	83	(NA)	7 214	53	4.38
1964 ASM----	3 803	2 208	85	1 982	1.62	60	80	11	7 540	50	4.46
1963 Census--	3 596	2 050	84	1 901	1.60	60	80	11	7 198	49	4.47
INDUSTRY 2393, TEXTILE BAGS											
1977 Census--	8 147	(NA)	83	1 900	3.61	62	83	(NA)	14 913	54	9.45
1976 ASM----	8 982	6 948	79	1 956	3.80	59	76	13	4 931	182	3.17
1975 ASM----	8 793	6 637	81	1 978	3.56	59	76	13	19 620	44	12.23
1974 ASM----	7 256	5 282	84	1 909	3.12	64	79	11	17 166	42	10.62
1973 ASM----	5 510	4 456	85	1 797	2.53	71	87	13	9 847	55	6.38
1972 Census--	5 569	4 873	84	1 895	2.47	71	88	15	9 430	59	5.86
1971 ASM----	5 558	5 207	85	1 893	2.40	64	82	17	10 805	51	6.65
1970 ASM----	4 858	5 000	84	1 861	2.19	67	85	18	8 647	56	5.48
1969 ASM----	4 377	5 428	87	1 883	1.97	70	85	17	8 693	50	5.25
1968 ASM----	4 320	4 910	89	1 943	1.93	71	85	15	8 730	49	5.04
1967 Census--	4 175	4 692	89	1 913	1.85	70	83	14	9 725	42	5.70
1966 ASM----	4 043	(NA)	85	2 067	1.90	71	85	(NA)	8 724	46	4.93
1965 ASM----	4 100	(NA)	85	2 016	1.93	71	85	(NA)	8 257	49	4.77
1964 ASM----	3 857	3 857	84	2 000	1.66	71	85	14	8 000	48	4.74
1963 Census--	3 930	3 638	84	1 950	1.73	72	86	13	7 847	50	4.74
INDUSTRY 2394, CANVAS AND RELATED PRODUCTS											
1977 Census--	8 748	(NA)	79	1 752	3.89	52	77	(NA)	17 080	51	12.31
1976 ASM----	8 009	5 067	83	1 813	3.49	53	80	17	14 252	56	9.41
1975 ASM----	7 153	4 769	83	1 770	3.24	51	77	17	12 865	55	8.68
1974 ASM----	7 160	4 098	82	1 804	3.15	53	80	15	12 196	58	8.22
1973 ASM----	6 050	3 135	80	1 857	2.57	53	79	13	11 050	54	7.43
1972 Census--	5 883	3 248	79	1 873	2.54	54	82	15	10 100	58	6.75
1971 ASM----	5 488	2 362	81	1 718	2.67	53	82	12	9 031	60	6.48
1970 ASM----	5 184	2 384	80	1 771	2.48	54	81	12	9 000	57	6.29
1969 ASM----	5 225	2 161	79	1 902	2.37	53	81	11	8 401	62	5.54
1968 ASM----	5 137	2 115	81	1 955	2.23	54	80	10	8 644	59	5.44
1967 Census--	4 506	1 736	84	1 860	2.02	54	79	9	8 348	53	5.28
1966 ASM----	4 041	(NA)	80	1 888	1.78	55	81	(NA)	7 055	57	4.82
1965 ASM----	4 000	(NA)	79	1 894	1.79	55	82	(NA)	6 717	59	4.46
1964 ASM----	4 140	(NA)	80	1 989	1.75	55	81	(NA)	7 271	56	4.53
1963 Census--	3 982	2 250	80	1 955	1.73	55	82	15	6 562	60	4.17

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2395, PLEATING AND STITCHING											
1977 Census--	8 101	(NA)	82	1 737	3.84	55	76	(NA)	17 425	46	12.19
1976 ASM----	8 758	4 400	81	1 816	4.15	49	75	13	16 633	52	11.21
1975 ASM----	7 270	(S)	83	1 878	3.24	46	75	(S)	13 328	54	8.45
1974 ASM----	6 527	(S)	87	1 716	3.12	47	75	(S)	12 379	52	8.23
1973 ASM----	5 405	(S)	88	1 778	2.51	44	73	(S)	10 392	52	6.59
1972 Census--	5 341	(S)	88	1 789	2.48	46	75	(S)	10 461	51	6.64
1971 ASM----	5 160	2 292	85	1 802	2.56	40	76	15	8 481	60	5.48
1970 ASM----	4 046	1 676	91	1 857	1.93	40	75	14	6 892	58	4.05
1969 ASM----	4 711	(S)	94	1 924	2.15	56	83	(S)	7 565	62	4.18
1968 ASM----	4 392	(S)	93	1 817	2.17	34	74	(S)	6 881	63	4.05
1967 Census--	4 022	(S)	92	1 776	2.06	35	74	(S)	6 681	60	4.06
1966 ASM----	3 485	(NA)	86	1 827	1.72	35	73	(NA)	6 373	54	4.02
1965 ASM----	3 612	(NA)	89	1 909	1.73	32	69	(NA)	6 591	54	3.84
1964 ASM----	3 254	806	86	1 904	1.66	35	71	9	5 762	56	3.48
1963 Census--	3 384	780	89	1 904	1.65	36	73	8	5 804	58	3.40
INDUSTRY 2396, AUTOMOTIVE AND APPAREL TRIMMINGS											
1977 Census--	15 439	(NA)	85	1 970	7.22	53	75	(NA)	32 412	47	19.33
1976 ASM----	13 592	(S)	83	1 860	6.79	54	77	(S)	27 042	50	17.37
1975 ASM----	11 991	(S)	81	1 859	5.99	57	79	(S)	22 602	53	14.90
1974 ASM----	11 432	(S)	80	1 906	5.54	57	81	(S)	20 825	54	13.56
1973 ASM----	10 697	(S)	84	2 016	4.78	55	78	(S)	20 605	51	12.09
1972 Census--	9 659	7 039	84	1 952	4.45	54	77	17	19 231	50	11.71
1971 ASM----	8 096	5 317	80	1 876	3.83	54	76	14	16 785	48	11.05
1970 ASM----	7 224	5 287	79	1 878	3.36	56	79	17	13 575	53	9.04
1969 ASM----	6 944	4 555	86	1 826	3.35	56	80	15	12 653	54	7.97
1968 ASM----	6 624	4 403	87	1 908	3.09	59	82	15	11 836	55	7.12
1967 Census--	5 944	4 542	84	1 872	2.82	57	81	17	10 941	54	6.90
1966 ASM----	5 700	(NA)	79	2 035	2.63	61	83	(NA)	9 985	57	6.15
1965 ASM----	5 500	(NA)	81	2 021	2.54	61	82	(NA)	10 295	53	6.21
1964 ASM----	5 429	1 326	78	2 152	2.44	59	81	5	10 412	52	6.12
1963 Census--	5 004	3 542	84	1 927	2.34	60	81	15	9 297	53	5.68
INDUSTRY 2397, SCHIFFLI MACHINE EMBROIDERIES											
1977 Census--	9 433	(NA)	88	1 969	4.10	39	74	(NA)	16 206	58	9.32
1976 ASM----	8 283	5 916	90	2 222	3.20	39	72	23	15 433	53	7.71
1975 ASM----	7 928	5 892	89	2 240	3.02	37	68	23	15 803	50	7.90
1974 ASM----	7 509	6 283	88	2 191	2.90	36	68	26	14 830	50	7.63
1973 ASM----	7 509	10 679	90	2 145	2.95	39	70	44	14 547	51	7.48
1972 Census--	7 072	10 345	89	2 061	2.91	38	70	47	13 636	51	7.42
1971 ASM----	5 963	8 909	89	2 204	2.78	35	71	46	12 490	55	6.36
1970 ASM----	6 260	9 000	90	2 133	2.65	36	70	49	11 620	53	6.05
1969 ASM----	6 808	9 297	87	2 048	2.96	42	71	39	13 489	50	7.54
1968 ASM----	6 177	8 622	91	2 121	2.62	40	70	41	12 355	50	6.39
1967 Census--	5 648	10 055	92	2 080	2.41	40	71	54	11 018	51	5.72
1966 ASM----	4 966	(NA)	86	2 176	2.12	46	77	(NA)	8 661	57	4.60
1965 ASM----	4 754	(NA)	90	1 981	2.18	47	77	(NA)	8 311	57	4.65
1964 ASM----	5 150	8 866	90	2 203	2.21	42	73	53	9 666	53	4.87
1963 Census--	5 000	9 032	90	2 163	2.18	43	74	56	9 081	55	4.65
INDUSTRY 2399, FABRICATED TEXTILE PRODUCTS, N.E.C.											
1977 Census--	8 495	(NA)	83	1 811	3.98	54	77	(NA)	17 093	49	11.30
1976 ASM----	8 114	6 649	84	1 776	3.83	53	74	17	17 946	45	11.95
1975 ASM----	7 474	6 461	85	1 764	3.59	53	75	18	16 250	45	10.82
1974 ASM----	6 709	5 872	83	1 784	3.23	55	78	19	13 222	50	8.82
1973 ASM----	6 296	5 228	85	1 895	2.89	58	80	19	11 765	53	7.28
1972 Census--	5 582	7 031	85	1 848	2.59	56	80	30	10 047	55	6.29
1971 ASM----	5 367	(NA)	85	1 874	2.50	52	73	(NA)	11 939	44	7.41
1970 ASM----	5 194	5 264	86	1 860	2.42	53	76	22	10 783	48	6.68
1969 ASM----	5 042	4 437	86	1 848	2.42	56	77	18	10 689	47	6.70
1968 ASM----	4 661	4 178	86	1 916	2.13	58	79	18	9 236	50	5.54
1967 Census--	4 272	3 544	86	1 905	1.95	58	79	17	8 380	50	5.05
1966 ASM----	3 855	(NA)	85	1 959	1.69	56	79	(NA)	7 323	52	4.35
1965 ASM----	3 762	(NA)	85	1 895	1.69	58	80	(NA)	7 120	52	4.38
1964 ASM----	3 805	2 544	82	1 914	1.72	59	81	14	6 907	55	4.36
1963 Census--	3 705	2 560	83	1 921	1.65	57	80	16	6 785	54	4.22

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2391, CURTAINS AND DRAPERIES													
United States	E1	**1 712**	**324**	**31.7**	**224.7**	**27.2**	**47.9**	**163.6**	**407.3**	**605.5**	**1 013.1**	**7.2**	**33.9**	**302.3**
New England Division:													
Massachusetts	-	49	28	3.1	20.6	2.6	4.7	15.2	38.3	59.4	98.8	(D)	3.5	30.7
Connecticut	-	10	4	0.4	2.5	0.3	0.6	1.7	5.0	10.0	15.5	(Z)	0.3	4.0
Middle Atlantic Division:														
New York	E1	175	41	2.9	24.5	2.5	4.3	17.2	54.5	109.3	163.3	0.6	3.6	41.0
New Jersey	E2	39	5	0.8	5.4	0.7	1.3	4.4	9.3	7.3	16.5	0.1	1.0	7.4
Pennsylvania	-	70	18	1.2	8.0	1.0	1.8	5.7	14.2	20.7	36.5	0.2	1.6	14.0
East North Central Division:														
Ohio	-	47	11	0.6	4.5	0.5	0.8	2.8	8.2	8.6	17.1	0.2	0.7	5.8
Indiana	-	39	12	1.4	9.9	1.1	1.9	7.2	17.3	26.7	44.9	0.3	1.4	14.6
Illinois	E2	80	7	0.7	5.0	0.6	1.0	3.6	8.2	8.0	16.0	0.1	1.0	8.1
Michigan	E2	31	5	0.3	2.2	0.2	0.4	1.5	3.2	2.8	5.8	0.1	0.4	2.9
Wisconsin	E1	20	3	0.2	1.5	0.2	0.3	1.1	2.6	3.3	6.0	0.1	0.2	1.5
West North Central Division:														
Minnesota	-	26	5	0.3	2.7	0.3	0.4	1.4	5.8	5.0	10.8	0.1	0.3	2.4
Missouri	-	29	6	0.4	2.9	0.3	0.6	1.9	5.0	3.8	9.1	(Z)	BB	(D)
South Atlantic Division:														
Maryland	E1	18	2	0.2	1.1	0.1	0.2	0.8	2.5	1.7	4.2	(Z)	(NA)	(NA)
West Virginia	-	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
North Carolina	-	33	17	4.6	32.1	4.1	7.5	26.5	46.1	95.6	140.0	0.8	5.8	60.9
South Carolina	-	21	7	0.7	4.2	0.6	1.0	3.1	9.3	17.5	26.9	(D)	1.0	9.2
Georgia	-	35	14	1.8	11.9	1.5	2.9	8.9	24.6	27.0	52.0	0.4	1.7	11.8
Florida	E3	133	8	0.8	5.6	0.7	1.2	3.9	11.4	12.5	23.8	0.1	EE	(D)
East South Central Division:														
Tennessee	E1	17	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	2.4
Alabama	-	13	2	0.4	3.3	0.3	0.5	2.1	5.5	2.1	7.4	(Z)	CC	(D)
West South Central Division:														
Louisiana	E1	13	2	0.2	1.1	0.2	0.1	0.8	1.5	3.3	4.9	(D)	(NA)	(NA)
Oklahoma	E1	21	5	0.5	3.3	0.5	0.9	2.8	8.4	11.6	19.3	0.3	BB	(D)
Texas	E1	109	17	2.2	14.2	1.9	3.6	11.1	24.0	51.6	75.2	0.5	1.6	14.3
Mountain Division:														
Idaho	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arizona	E2	30	4	0.3	1.8	0.2	0.4	1.2	2.9	3.6	6.5	(D)	0.4	3.0
Utah	E1	18	3	0.2	1.1	0.2	0.2	0.7	1.6	2.2	3.7	0.1	0.2	1.3
Nevada	E1	11	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	E2	47	10	0.6	4.0	0.5	0.8	2.8	5.9	6.1	11.9	0.1	0.3	1.9
Oregon	E1	32	7	0.4	3.1	0.3	0.5	1.7	5.7	5.8	11.3	(D)	BB	(D)
California	E3	389	56	4.2	30.2	3.6	6.3	21.0	52.2	59.4	110.5	(D)	4.0	32.6
Hawaii	-	7	2	0.2	1.2	0.1	0.2	0.8	2.2	2.3	4.5	(Z)	(NA)	(NA)
INDUSTRY 2392, HOUSE FURNISHINGS, N.E.C.														
United States	-	**1 051**	**403**	**47.5**	**366.4**	**39.8**	**75.4**	**260.0**	**782.9**	**1 541.4**	**2 294.0**	**26.9**	**50.3**	**585.2**
New England Division:														
Massachusetts	E1	33	13	0.9	6.9	0.7	1.2	4.2	15.7	24.0	39.2	(D)	1.5	16.5
Connecticut	E3	14	8	0.6	3.6	0.5	0.9	2.7	7.1	11.2	18.0	0.2	0.5	5.2
Middle Atlantic Division:														
New York	E1	272	85	8.0	61.9	6.5	12.1	40.3	124.8	233.0	356.2	3.4	8.5	111.6
New Jersey	-	62	31	3.1	25.2	2.7	5.1	18.7	58.6	89.1	141.7	(D)	2.6	34.4
Pennsylvania	-	54	21	2.1	15.4	1.7	3.0	10.7	31.9	34.8	65.0	0.5	2.7	26.2
East North Central Division:														
Ohio	-	28	8	1.6	11.3	1.3	2.4	7.1	24.9	46.4	71.5	(D)	1.4	17.5
Indiana	-	17	7	0.8	5.9	0.6	1.2	4.2	10.7	10.9	21.6	0.1	0.5	6.1
Illinois	-	68	30	2.5	22.2	2.0	4.0	15.0	49.5	67.0	116.4	1.2	2.6	32.8
Michigan	E3	19	2	0.2	1.4	0.2	0.4	1.1	3.2	2.8	6.0	0.1	BB	(D)
West North Central Division:														
Minnesota	-	11	8	0.4	3.4	0.4	0.6	2.3	7.4	9.0	16.3	0.3	0.6	3.6
Iowa	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri	E2	15	7	0.3	2.4	0.2	0.4	1.5	5.5	10.2	15.5	0.2	0.5	4.2
South Dakota	-	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas	E3	8	2	0.2	1.5	0.2	0.3	1.2	1.8	2.4	4.2	0.1	(NA)	(NA)
South Atlantic Division:														
Maryland	E1	12	3	0.2	1.3	0.1	0.2	0.6	3.2	2.9	6.0	0.1	0.2	2.1
Virginia	-	9	6	1.5	12.9	1.2	2.3	8.4	25.6	50.0	75.8	(D)	EE	(D)
North Carolina	-	41	24	5.4	40.1	4.8	9.4	33.5	84.1	233.8	305.5	3.2	6.1	69.7
South Carolina	-	19	13	4.2	35.3	3.5	6.8	26.4	56.7	148.4	200.7	(D)	FF	(D)
Georgia	-	44	27	5.1	36.9	4.0	7.6	23.8	73.3	215.4	287.0	4.0	5.1	60.4
Florida	E3	34	11	0.5	3.3	0.4	0.7	2.2	7.2	7.4	14.6	0.2	0.4	2.4
East South Central Division:														
Kentucky	-	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	8.6
Tennessee	-	11	6	0.5	3.7	0.4	0.8	2.5	10.5	11.1	20.9	0.5	0.7	7.7
Alabama	-	19	9	2.2	15.7	2.0	3.9	13.7	56.6	148.1	205.4	0.3	1.9	15.4
Mississippi	E1	11	4	0.7	4.5	0.6	1.1	3.4	9.3	12.7	22.1	0.2	1.2	12.0
West South Central Division:														
Oklahoma	E1	8	3	0.6	4.1	0.5	0.9	2.8	5.6	23.0	29.3	0.2	BB	(D)
Texas	E3	35	11	0.7	5.2	0.7	1.3	3.8	11.6	22.5	33.8	0.4	0.9	9.4
Pacific Division:														
California	E1	123	39	3.2	26.6	2.8	5.4	18.4	64.1	81.6	145.3	(D)	3.6	38.9

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2393, TEXTILE BAGS													
United States	-	**228**	**90**	**8.2**	**66.7**	**6.8**	**12.9**	**46.8**	**122.2**	**200.5**	**321.8**	**5.8**	**7.9**	**74.5**
New England Division:													
Massachusetts	-	16	4	0.3	2.5	0.3	0.5	1.6	4.2	17.2	21.4	(D)	AA	(D)
Middle Atlantic Division:													
New York	E1	32	10	0.9	7.0	0.7	1.3	4.6	11.3	14.6	26.0	0.2	1.0	9.5
New Jersey	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	1.1
Pennsylvania	E2	11	6	0.3	2.7	0.3	0.5	1.8	6.4	5.7	12.0	0.2	0.2	1.2
East North Central Division:														
Ohio	E2	9	3	0.2	1.4	0.1	0.2	0.8	2.6	3.8	6.3	0.2	0.2	1.6
Illinois	E1	11	3	0.5	4.2	0.3	0.6	3.1	4.9	6.0	10.7	0.1	0.2	0.9
West North Central Division:														
Missouri	-	7	3	0.5	4.4	0.4	0.8	3.2	8.2	15.2	23.4	(D)	CC	(D)
South Atlantic Division:														
Virginia	-	7	3	0.3	2.3	0.2	0.5	1.6	3.4	5.3	8.9	(D)	0.2	3.1
North Carolina	-	8	4	0.8	5.6	0.6	1.3	4.2	10.5	13.6	24.8	0.7	0.9	8.3
Georgia	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.5
East South Central Division:														
Tennessee	-	5	3	0.3	2.3	0.2	0.5	1.7	4.5	11.2	15.6	(D)	AA	(D)
West South Central Division:														
Louisiana	-	9	6	0.4	3.1	0.4	0.7	2.3	4.6	10.0	14.8	(D)	0.5	3.0
Texas	-	13	6	0.4	3.3	0.4	0.8	2.2	6.4	15.8	21.8	0.2	BB	(D)
Mountain Division:														
Colorado	-	3	2	0.2	1.6	0.2	0.3	1.1	2.1	3.8	5.7	0.1	(NA)	(NA)
Arizona	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Oregon	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
California	-	19	5	0.6	5.6	0.5	0.9	3.7	11.9	21.4	32.7	(D)	0.7	8.8
INDUSTRY 2394, CANVAS AND RELATED PRODUCTS														
United States	E1	**1 003**	**148**	**13.9**	**121.6**	**11.0**	**19.3**	**75.1**	**237.4**	**254.2**	**486.8**	**8.4**	**12.9**	**130.3**
New England Division:														
Massachusetts	E2	35	6	0.5	4.4	0.4	0.7	2.5	7.8	8.2	15.9	(D)	0.5	5.7
Connecticut	E2	24	3	0.3	2.1	0.2	0.4	1.4	3.6	3.0	6.5	0.1	(NA)	(NA)
Middle Atlantic Division:														
New York	E1	83	15	1.6	13.2	1.3	2.3	9.3	22.0	23.8	45.1	0.6	1.3	14.0
New Jersey	E3	45	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.1
Pennsylvania	E2	52	4	0.4	3.1	0.3	0.5	1.9	6.2	4.2	10.4	0.2	0.6	5.2
East North Central Division:														
Ohio	E1	65	11	0.8	6.3	0.6	1.0	3.9	11.2	12.4	23.6	0.4	0.9	9.0
Indiana	-	21	7	0.7	5.9	0.6	1.0	4.0	10.1	11.4	21.5	0.4	0.5	5.4
Illinois	-	39	10	0.6	5.1	0.5	0.8	3.3	11.0	11.1	21.9	0.3	0.6	5.8
Michigan	E1	49	7	0.6	5.6	0.5	0.9	3.4	12.3	11.4	23.4	0.4	0.6	5.4
Wisconsin	E1	23	5	0.3	2.5	0.2	0.4	1.7	4.3	3.5	7.8	0.1	0.2	1.5
West North Central Division:														
Minnesota	E1	16	2	0.2	1.6	0.2	0.3	0.9	2.8	2.6	5.4	0.1	0.2	1.4
Iowa	-	17	3	0.3	3.0	0.2	0.4	1.7	6.0	6.2	12.2	(D)	AA	(D)
Missouri	E1	22	4	0.7	5.6	0.5	0.9	3.2	9.7	12.9	21.3	(D)	1.0	9.9
North Dakota	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas	-	9	2	0.2	1.1	0.1	0.2	0.7	2.3	2.0	4.3	(D)	0.2	1.8
South Atlantic Division:														
Maryland	-	29	2	0.4	4.0	0.2	0.4	1.7	6.4	8.6	14.3	0.1	0.4	4.0
North Carolina	E1	18	4	0.3	2.9	0.3	0.5	1.7	5.5	6.6	12.3	(D)	0.6	8.0
Georgia	-	10	2	0.3	2.7	0.3	0.5	1.8	5.0	7.5	12.3	(D)	AA	(D)
Florida	E1	79	10	1.0	8.8	0.7	1.3	5.3	23.1	13.9	36.9	0.2	0.7	5.6
East South Central Division:														
Kentucky	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Tennessee	-	10	3	0.5	5.0	0.4	0.7	2.9	6.0	16.6	23.2	(D)	CC	(D)
West South Central Division:														
Texas	E1	44	6	0.4	3.7	0.3	0.6	2.2	5.8	7.4	14.2	0.2	0.4	3.7
Mountain Division:														
Wyoming	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Colorado	-	14	2	0.3	2.7	0.2	0.4	1.5	8.3	9.7	17.7	0.2	0.2	1.3
Pacific Division:														
Washington	-	30	4	0.4	3.5	0.3	0.6	2.3	5.5	6.5	11.9	0.2	0.2	2.0
California	E1	124	17	1.3	12.1	1.1	2.0	7.9	22.8	21.9	44.3	(D)	1.2	11.3

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2395, PLEATING AND STITCHING														
United States	**E1**	**780**	**207**	**16.4**	**132.8**	**13.5**	**23.4**	**90.2**	**285.6**	**352.4**	**635.0**	**9.3**	**16.7**	**174.7**
New England Division:														
Massachusetts	E1	19	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.0
Rhode Island	–	5	3	0.2	1.9	0.1	0.2	1.2	7.9	3.0	10.6	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	E1	254	75	5.3	44.8	4.5	7.8	31.0	89.8	111.8	202.1	2.4	6.8	73.8
New Jersey	E3	148	16	1.4	11.7	1.2	2.2	8.7	22.7	21.8	44.3	(D)	1.7	16.3
Pennsylvania	–	24	7	0.7	5.9	0.6	0.9	4.1	10.4	10.1	20.4	0.2	1.0	12.3
East North Central Division:														
Ohio	–	16	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Illinois	E1	21	6	0.5	3.1	0.4	0.6	2.4	6.1	5.4	11.3	(D)	CC	(D)
West North Central Division:														
Iowa	–	3	3	0.3	2.8	0.2	0.4	1.6	6.7	14.4	21.3	(D)	(NA)	(NA)
Missouri	–	14	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Kansas	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
North Carolina	E1	23	8	0.8	5.3	0.7	0.9	4.0	8.6	10.8	19.5	0.2	0.4	2.1
South Carolina	E1	11	7	0.4	2.9	0.3	0.6	2.1	5.3	6.6	11.9	(D)	0.2	2.0
Georgia	–	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Florida	–	22	7	0.7	4.7	0.6	1.1	3.3	8.1	13.7	21.6	0.2	BB	(D)
West South Central Division:														
Texas	E2	29	11	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pacific Division:														
California	E1	100	31	2.8	23.3	2.2	3.9	14.6	49.3	61.1	110.0	(D)	2.2	20.0
INDUSTRY 2396, AUTOMOTIVE AND APPAREL TRIMMINGS														
United States	**–**	**714**	**188**	**30.9**	**476.4**	**26.3**	**51.7**	**373.9**	**1 000.1**	**1 162.5**	**2 165.7**	**36.1**	**27.6**	**530.8**
New England Division:														
Massachusetts	–	22	11	1.4	15.0	1.0	1.8	7.6	36.4	34.4	71.0	(D)	1.5	25.5
Middle Atlantic Division:														
New York	E3	258	69	4.1	45.0	3.5	6.3	31.7	77.4	86.3	164.6	1.8	5.7	66.5
New Jersey	E2	45	11	0.7	8.7	0.6	1.1	6.4	18.9	22.4	41.1	(D)	0.8	11.2
Pennsylvania	–	30	13	0.7	7.2	0.6	1.2	5.3	12.5	14.3	26.9	(D)	1.0	12.1
East North Central Division:														
Ohio	–	29	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Illinois	–	21	4	0.3	5.1	0.2	0.5	2.7	9.9	46.5	57.0	0.5	CC	(D)
Michigan	–	25	18	17.8	323.9	15.5	31.7	266.5	685.6	777.3	1 465.0	(D)	FF	(D)
South Atlantic Division:														
Maryland	–	10	4	0.3	2.6	0.3	0.4	2.0	4.8	4.2	9.0	(Z)	0.4	3.9
North Carolina	E3	20	8	0.6	5.4	0.5	1.1	4.3	9.8	12.0	21.8	0.3	0.4	4.2
Florida	E8	30	1	0.2	1.6	0.1	0.3	1.3	2.7	2.6	5.3	0.1	AA	(D)
East South Central Division:														
Tennessee	–	11	6	0.3	2.5	0.2	0.4	1.8	6.2	10.3	16.5	0.1	AA	(D)
Mississippi	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Texas	–	19	5	0.4	2.9	0.3	0.6	2.2	5.2	9.5	14.5	0.1	BB	(D)
Pacific Division:														
California	E1	73	18	1.0	10.1	0.9	1.6	7.9	19.5	18.2	37.5	(D)	CC	(D)
INDUSTRY 2397, SCHIFFLI MACHINE EMBROIDERIES														
United States	**E1**	**363**	**58**	**6.0**	**56.3**	**5.3**	**10.4**	**42.5**	**96.7**	**62.0**	**158.0**	**3.3**	**5.5**	**75.0**
Middle Atlantic Division:														
New York	E1	19	5	0.3	2.2	0.2	0.4	1.6	6.3	5.8	11.9	0.2	0.3	4.0
New Jersey	E1	304	31	2.8	31.7	2.4	4.9	23.9	54.0	42.3	96.4	(D)	3.1	50.1
Pennsylvania	–	4	3	0.2	1.7	0.2	0.4	1.4	2.7	1.1	3.9	(D)	(NA)	(NA)
East North Central Division:														
Illinois	–	5	4	0.3	1.9	0.2	0.4	1.4	3.0	0.8	3.7	0.1	0.4	2.8
South Atlantic Division:														
Maryland	–	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Carolina	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West South Central Division:														
Texas	–	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
California	–	5	4	0.3	2.4	0.3	0.5	1.9	3.6	1.5	5.0	(D)	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2399, FABRICATED TEXTILE PRODUCTS, N.E.C.														
United States	-	**877**	**271**	**30.8**	**261.4**	**25.7**	**46.5**	**185.2**	**525.9**	**626.2**	**1 145.4**	**19.0**	**31.4**	**315.5**
New England Division:														
Massachusetts	E1	37	9	0.8	5.9	0.7	1.2	4.3	12.8	12.5	25.0	(D)	0.7	5.2
Rhode Island	-	7	3	0.2	1.7	0.2	0.3	1.2	3.3	3.8	6.9	(D)	(NA)	(NA)
Connecticut	-	11	2	0.2	2.5	0.1	0.3	1.1	5.5	8.4	14.0	0.1	0.3	6.0
Middle Atlantic Division:														
New York	E2	133	38	2.5	22.7	2.4	4.1	15.8	43.7	39.7	84.2	1.3	3.5	33.7
New Jersey	E1	75	25	1.4	11.9	1.1	2.2	7.9	24.9	25.8	50.3	(D)	1.7	15.6
Pennsylvania	-	40	18	1.8	15.3	1.6	3.1	11.0	27.2	21.7	48.0	0.6	2.3	18.0
East North Central Division:														
Ohio	-	35	15	1.3	8.7	0.9	1.7	5.8	17.2	17.4	33.1	0.3	1.2	15.6
Indiana	-	13	8	1.1	9.0	0.8	1.1	4.9	23.0	39.3	62.6	(D)	0.3	4.3
Illinois	E1	38	18	1.2	9.9	1.0	1.8	6.6	22.3	24.1	46.3	1.1	2.3	25.3
Michigan	-	17	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	15.8
Wisconsin	-	14	8	0.8	6.2	0.7	1.3	4.5	13.8	16.5	30.2	0.3	1.3	12.9
West North Central Division:														
Missouri	-	15	4	0.7	4.7	0.6	1.1	3.9	19.4	19.4	38.6	(D)	0.5	4.9
South Atlantic Division:														
Virginia	E1	8	2	0.2	0.6	0.2	0.2	0.4	2.2	0.8	2.9	(Z)	AA	(D)
North Carolina	-	35	14	1.9	13.5	1.6	2.7	10.2	22.7	51.1	72.1	0.6	1.6	15.0
South Carolina	-	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	12.9
Georgia	-	31	16	2.9	29.9	2.3	4.8	21.3	51.5	78.3	132.0	2.1	2.3	28.2
Florida	E2	36	4	0.5	2.7	0.3	0.5	2.1	5.4	4.3	9.7	0.2	AA	(D)
East South Central Division:														
Kentucky	-	7	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Tennessee	-	12	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	31.8
Alabama	E6	14	2	0.2	1.8	0.2	0.3	1.2	3.5	4.2	7.7	0.2	BB	(D)
Mississippi	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West South Central Division:														
Arkansas	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas	-	48	15	2.0	14.2	1.7	3.2	10.7	25.3	26.6	51.0	1.0	0.7	4.8
Mountain Division:														
Colorado	-	16	5	0.5	5.1	0.4	0.7	2.8	10.3	10.2	20.1	0.3	(NA)	(NA)
Utah	-	6	4	0.4	2.8	0.4	0.6	2.4	7.6	10.0	17.1	(D)	CC	(D)
Pacific Division:														
California	E2	118	32	2.5	19.4	2.1	3.7	13.5	38.2	40.0	78.1	(D)	2.7	21.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Curtains and draperies (SIC 2391)	House furnishings, n.e.c. (SIC 2392)	Textile bags (SIC 2393)	Canvas and related products (SIC 2394)	Pleating and stitching (SIC 2395)	Automotive and apparel trimmings (SIC 2396)	Schiffli machine embroideries (SIC 2397)	Fabricated textile products, n.e.c. (SIC 2399)
Primary product specialization ratio[1]	percent	95	89	82	93	96	98	97	94
Coverage ratio[2]	do	93	61	84	92	98	96	98	89
All establishments	number	1 712	1 051	228	1 003	780	714	363	877
With 1 to 19 employees	do	1 388	648	138	855	573	526	305	806
With 20 to 99 employees	do	260	273	69	123	177	157	49	204
With 100 employees or more	do	64	130	21	25	30	31	9	67
All employees, average for year	1,000	31.7	47.5	8.2	13.9	16.4	30.9	6.0	30.8
Payroll for year, all employees	mil. dol.	224.7	366.4	66.7	121.6	132.8	476.4	56.3	261.4
Production workers:									
Average for year	1,000	27.2	39.8	6.8	11.0	13.5	26.3	5.3	25.7
March	do	26.0	38.3	6.7	10.6	12.9	26.0	5.2	25.4
May	do	27.3	39.0	6.9	11.4	13.9	26.7	5.2	25.9
August	do	27.4	39.7	6.7	11.2	13.8	25.1	5.2	25.3
November	do	28.0	42.0	6.9	10.8	13.1	27.4	5.5	26.1
Hours	millions	47.9	75.4	12.9	19.3	23.4	51.7	10.4	46.5
January to March	do	11.5	17.7	3.1	4.5	5.5	12.7	2.7	11.3
April to June	do	12.1	18.7	3.3	5.1	6.3	13.7	2.7	11.9
July to September	do	11.6	18.4	3.2	4.8	6.0	12.6	2.4	11.7
October to December	do	12.7	20.6	3.3	4.8	5.7	12.7	2.6	11.7
Wages	mil. dol.	163.6	260.0	46.8	75.1	90.2	373.9	42.5	185.2
Cost of materials, etc.	do	605.5	1 541.4	200.5	254.2	352.4	1 162.5	62.0	528.2
Materials, parts, containers, etc., consumed	do	542.5	1 392.6	169.8	226.5	333.0	1 131.8	41.5	578.4
Resales	do	27.2	64.2	27.4	23.5	5.7	10.8	0.9	17.2
Fuels consumed	do	1.8	14.0	1.1	1.1	1.7	3.8	0.4	3.6
Purchased electric energy	do	5.2	12.6	1.6	1.8	4.1	7.5	1.2	7.0
Contract work	do	28.8	57.9	0.6	1.2	7.9	8.5	18.1	22.1
Value of shipments, including resales	do	1 013.1	2 294.0	321.8	486.8	635.0	2 165.7	158.0	1 145.4
Value of resales	do	31.8	81.5	34.2	23.7	8.5	13.1	1.1	24.9
Value added by manufacture	do	407.3	782.9	122.2	237.4	285.6	1 000.1	96.7	525.9
Manufacturers' inventories:									
Beginning of year	do	140.5	345.7	57.6	91.5	77.2	214.5	8.9	154.7
Finished products	do	49.2	162.6	14.4	29.8	33.2	24.3	3.7	43.3
Work in process	do	32.9	54.4	5.5	10.7	9.4	84.6	1.5	34.4
Materials, supplies, fuel, etc.	do	58.4	128.8	37.7	51.1	34.6	105.7	3.8	77.0
End of year	do	151.2	393.0	59.4	101.0	84.6	194.2	10.1	164.8
Finished products	do	46.5	185.2	15.1	33.9	34.2	22.9	3.5	51.0
Work in process	do	35.5	62.0	5.7	11.3	11.4	82.7	2.3	35.5
Materials, supplies, fuel, etc.	do	69.3	145.8	38.6	55.8	39.0	88.5	4.3	78.4
Capital expenditures for plant and equipment	do	8.5	31.1	6.2	8.7	9.8	37.5	3.5	19.6
New capital expenditures	do	7.2	26.9	5.8	8.4	9.3	36.1	3.3	19.0
New buildings and other structures	do	1.6	6.3	1.4	2.2	1.8	6.4	0.4	3.7
New machinery and equipment	do	5.6	20.6	4.4	6.2	7.6	29.6	2.9	15.3
Used capital expenditures	do	1.2	4.2	0.4	0.3	0.5	1.5	0.2	0.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Curtains and draperies (SIC 2391)		House furnishings, n.e.c. (SIC 2392)		Textile bags (SIC 2393)		Canvas and related products (SIC 2394)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	(0.4)	19	1.5	10	(0.4)	34	(0.7)	28
Response coverage ratio[2] (percent)	62.3	(X)	72.4	(X)	66.8	(X)	63.5	(X)
Machinery	(1.2)	19	4.1	8	(1.4)	20	(3.3)	(A)
Response coverage ratio[2] (percent)	61.5	(X)	64.7	(X)	78.0	(X)	61.8	(X)
Cost of purchased communication services	(1.6)	19	3.4	9	(56.7)	(A)	(1.6)	22
Response coverage ratio[2] (percent)	63.4	(X)	61.9	(X)	61.0	(X)	68.5	(X)
Rental payments	8.9	10	13.5	7	(2.1)	19	7.8	11
Buildings and other structures	7.6	9	10.2	8	(1.6)	21	6.1	13
Machinery and equipment	(1.3)	29	3.3	11	(0.5)	25	(1.8)	35
Supplemental labor costs	27.6	3	50.8	2	9.2	4	17.6	8
Legal costs	18.6	3	29.4	2	5.1	4	9.5	3
Voluntary costs	9.0	6	21.4	3	4.1	6	(8.0)	17
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	34.5	6	101.6	6	13.2	12	(23.7)	17
New capital expenditures	(2.2)	17	5.3	11	(3.2)	71	(1.6)	27
Used capital expenditures	(0.6)	37	2.7	2	-	(X)	-	(X)
Retirements	5.2	9	(3.0)	24	(1.1)	21	(1.0)	36
End of year	32.1	7	106.6	6	(15.2)	17	(24.3)	16
Machinery and equipment:								
Beginning of year	60.2	6	196.6	5	30.2	11	(43.6)	28
New capital expenditures	5.5	12	18.4	9	(5.3)	27	6.1	13
Automobiles, trucks, etc., for highway use[3]	(0.7)	(A)	(0.5)	(A)	(0.2)	(A)	(0.8)	(A)
Computers and peripheral data processing equipment[3]	(0.1)	(A)	(0.5)	(A)	(0.1)	(A)	(0.4)	(A)
All other[3]	(3.4)	(A)	(13.6)	(A)	(4.5)	(A)	(3.5)	(A)
New machinery and equipment, n.s.k.[4]	(1.4)	(A)	(3.8)	(A)	(0.5)	(A)	(1.4)	(A)
Used capital expenditures	0.6	12	(1.5)	22	(0.4)	22	(0.8)	81
Retirements	7.7	9	11.1	11	(1.4)	34	(3.1)	(A)
End of year	58.6	5	205.5	5	34.5	9	47.4	14
Total gross value of depreciable assets:								
Beginning of year	94.8	5	298.1	5	43.4	8	(67.4)	20
New capital expenditures	7.7	13	23.7	8	(8.4)	29	7.7	14
Used capital expenditures	(1.2)	19	4.3	9	(0.5)	21	(0.8)	81
Retirements	12.6	7	14.1	13	(2.5)	21	(4.1)	(A)
End of year	91.1	4	312.0	5	49.8	6	(71.8)	18
Depreciation charges during 1977	7.2	6	22.2	5	3.7	11	(5.4)	(A)
Buildings and other structures	1.5	9	4.2	7	(0.7)	28	(1.3)	17
Machinery and equipment	5.7	7	18.0	6	3.0	10	(4.1)	75

See footnotes at end of table.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977—Con.

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Pleating and stitching (SIC 2395)		Automotive and apparel trimmings (SIC 2396)		Schiffli machine embroideries (SIC 2397)		Fabricated textile products, n.e.c. (SIC 2399)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	(0.3)	20	(201.6)	92	(0.1)	50	(1.1)	35
Response coverage ratio[2] (percent)	60.2	(X)	83.1	(X)	76.9	(X)	59.8	(X)
Machinery	(2.9)	45	337.6	1	(0.6)	37	(2.8)	17
Response coverage ratio[2] (percent)	68.9	(X)	73.5	(X)	64.6	(X)	72.3	(X)
Cost of purchased communication services	(2.3)	42	(14.1)	79	(0.5)	25	(3.7)	33
Response coverage ratio[2] (percent)	68.7	(X)	80.2	(X)	72.6	(X)	60.2	(X)
Rental payments	(5.1)	18	10.9	7	(1.8)	59	(11.4)	26
Buildings and other structures	(3.1)	25	8.3	8	0.7	(A)	(5.3)	22
Machinery and equipment	(2.0)	23	2.6	12	(1.1)	45	(6.1)	51
Supplemental labor costs	15.4	9	149.1	1	5.2	11	38.8	4
Legal costs	9.8	9	42.5	2	3.7	9	20.9	4
Voluntary costs	5.7	13	106.6	1	(1.5)	16	17.9	6
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	(25.9)	25	90.4	3	6.9	14	55.7	14
New capital expenditures	(0.8)	36	6.2	6	(0.1)	(A)	(6.1)	43
Used capital expenditures	(0.4)	76	(0.2)	68	-	(X)	(1.8)	72
Retirements	(1.0)	44	(1.2)	26	(0.1)	(A)	(1.1)	82
End of year	(26.1)	25	95.7	3	(6.9)	37	62.4	13
Machinery and equipment:								
Beginning of year	(65.4)	15	158.5	3	24.1	13	114.5	10
New capital expenditures	(6.8)	22	29.8	7	(3.4)	28	(26.8)	22
Automobiles, trucks, etc., for highway use[3]	(0.1)	(A)	(1.9)	(A)	(0.2)	(A)	(1.1)	(A)
Computers and peripheral data processing equipment[3]	-	(X)	(0.3)	(A)	(Z)	(A)	(0.9)	(A)
All other[3]	(5.5)	(A)	(22.0)	(A)	(2.8)	(A)	(20.1)	(A)
New machinery and equipment, n.s.k.[4]	(1.2)	(A)	(5.7)	(A)	(0.3)	(A)	(4.6)	(A)
Used capital expenditures	(0.5)	30	1.0	14	0.1	1	(1.2)	40
Retirements	(5.6)	43	11.3	5	(0.7)	(A)	(5.9)	59
End of year	67.1	13	178.0	3	(26.9)	25	136.5	7
Total gross value of depreciable assets:								
Beginning of year	(91.4)	15	249.0	2	31.0	12	170.0	10
New capital expenditures	(7.6)	21	36.0	6	(3.5)	25	(32.9)	22
Used capital expenditures	(0.9)	36	(1.2)	17	0.1	1	(3.0)	49
Retirements	(6.6)	39	12.5	5	(0.8)	(A)	(7.0)	56
End of year	93.3	14	273.7	2	(33.8)	27	198.9	8
Depreciation charges during 1977	(8.5)	15	19.9	5	(2.0)	31	15.2	7
Buildings and other structures	(1.3)	27	3.3	4	(0.2)	56	(2.4)	23
Machinery and equipment	(7.2)	15	16.6	5	(1.8)	28	12.7	6

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors at 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. n.s.k. Not specified by kind. (X) Not applicable. n.e.c. Not elsewhere classified. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

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Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2391, CURTAINS AND DRAPERIES												
Total	**E1**	**1 712**	**31.7**	**224.7**	**27.2**	**47.9**	**163.6**	**407.3**	**605.5**	**1 013.1**	**7.2**	**151.2**
Establishments with an average of—												
1 to 4 employees	E8	901	1.5	10.6	1.5	2.3	7.6	15.5	27.0	45.3	0.3	6.5
5 to 9 employees	E4	255	1.7	12.1	1.5	2.6	8.6	21.3	28.4	49.6	0.3	6.9
10 to 19 employees	E1	232	3.2	23.1	2.7	4.6	16.2	40.1	44.8	84.4	1.0	10.4
20 to 49 employees	E1	191	6.0	43.7	4.9	8.6	29.2	81.9	97.1	177.3	1.5	24.3
50 to 99 employees	E1	69	4.7	34.9	4.0	7.2	23.7	67.1	79.7	146.4	1.0	21.3
100 to 249 employees	–	45	6.7	46.3	5.8	10.3	35.1	98.0	170.9	268.1	(3.2)	41.8
250 to 499 employees	–	15	5.1	35.4	4.4	8.0	27.6	56.7	74.7	131.5	(D)	21.9
500 to 999 employees	–	4	2.7	18.7	2.3	4.4	15.6	26.7	83.0	110.4	(D)	18.0
Covered by administrative records[2]	E9	839	1.8	12.2	1.8	2.8	8.7	20.5	31.1	51.6	0.3	7.8
INDUSTRY 2392, HOUSE FURNISHINGS, N.E.C.												
Total	**–**	**1 051**	**47.5**	**365.4**	**39.8**	**75.4**	**260.0**	**782.9**	**1 541.4**	**2 294.0**	**26.9**	**393.0**
Establishments with an average of—												
1 to 4 employees	E7	372	0.6	4.4	0.6	0.9	3.0	11.4	15.3	27.0	0.3	3.8
5 to 9 employees	E6	160	1.1	8.1	0.9	1.6	5.6	16.0	24.2	40.1	0.5	6.2
10 to 19 employees	E3	116	1.6	11.7	1.3	2.3	7.8	22.8	31.9	54.3	0.6	8.0
20 to 49 employees	E1	185	5.8	44.3	4.8	8.8	30.2	100.9	153.1	252.9	3.7	39.0
50 to 99 employees	E1	88	6.5	48.5	5.4	9.9	33.4	112.0	175.9	285.1	2.8	42.6
100 to 249 employees	–	86	13.3	97.8	11.4	21.7	69.7	223.2	345.6	566.0	6.2	102.7
250 to 499 employees	–	33	11.1	86.6	9.4	18.1	62.5	168.3	333.7	485.7	9.1	100.6
500 to 999 employees	–	7	(7.6)	(65.1)	(6.1)	(12.2)	(47.8)	(128.3)	(461.6)	(582.8)	(3.6)	(90.2)
1,000 to 2,499 employees	–	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	444	1.6	11.4	1.4	2.4	7.9	22.0	39.7	61.7	0.9	10.4
INDUSTRY 2393, TEXTILE BAGS												
Total	**–**	**228**	**8.2**	**66.7**	**6.6**	**12.9**	**46.8**	**122.2**	**200.5**	**321.8**	**5.8**	**59.4**
Establishments with an average of—												
1 to 4 employees	E8	75	0.1	1.0	0.1	0.2	0.7	1.9	3.5	5.4	0.1	0.8
5 to 9 employees	E6	23	0.2	1.4	0.2	0.3	0.9	2.2	4.3	6.6	0.1	1.1
10 to 19 employees	E2	40	0.5	4.6	0.4	0.8	2.8	7.8	13.8	21.6	0.4	2.7
20 to 49 employees	–	38	1.2	9.4	1.0	1.9	6.3	16.8	38.3	54.9	0.4	9.9
50 to 99 employees	–	31	2.3	17.7	2.0	3.8	12.5	31.7	53.7	85.5	(4.8)	14.1
100 to 249 employees	–	17	2.7	23.1	2.2	4.3	16.4	44.3	68.8	112.3	(D)	19.8
250 to 499 employees	–	4	1.2	9.7	0.9	1.7	7.1	17.5	18.0	35.5	(D)	11.0
Covered by administrative records[2]	E0	92	0.3	2.5	0.3	0.6	1.7	4.2	7.9	12.1	0.2	1.8
INDUSTRY 2394, CANVAS AND RELATED PRODUCTS												
Total	**E1**	**1 003**	**13.9**	**121.6**	**11.0**	**19.3**	**75.1**	**237.4**	**254.2**	**456.8**	**8.4**	**101.0**
Establishments with an average of—												
1 to 4 employees	E7	493	0.8	7.3	0.8	1.2	4.6	14.3	14.8	29.0	0.7	5.9
5 to 9 employees	E1	177	1.2	10.5	1.0	1.6	6.6	18.2	16.8	34.8	0.5	5.7
10 to 19 employees	E1	185	2.5	21.5	1.9	3.3	13.0	38.3	36.4	74.3	1.3	12.6
20 to 49 employees	E1	95	2.8	25.1	2.2	4.0	15.7	46.3	47.0	92.9	1.7	16.5
50 to 99 employees	–	28	2.0	16.7	1.6	2.9	10.2	32.9	32.8	65.9	0.8	11.3
100 to 249 employees	–	20	3.0	26.0	2.3	4.3	16.3	58.4	67.6	122.9	1.3	24.0
250 to 499 employees	–	5	1.6	14.4	1.2	2.0	8.6	29.2	38.9	67.0	2.1	25.0
Covered by administrative records[2]	E0	396	0.6	5.5	0.6	0.9	3.5	10.6	11.7	22.2	0.5	5.1
INDUSTRY 2395, PLEATING AND STITCHING												
Total	**E1**	**780**	**16.4**	**132.8**	**13.5**	**23.4**	**90.2**	**285.6**	**352.4**	**635.0**	**9.3**	**84.6**
Establishments with an average of—												
1 to 4 employees	E8	346	0.7	5.1	0.7	1.0	3.4	9.2	11.3	20.6	0.2	2.5
5 to 9 employees	E4	97	0.6	5.3	0.5	0.9	3.6	10.0	11.2	21.0	0.2	2.4
10 to 19 employees	E2	130	1.9	14.5	1.5	2.4	9.7	28.6	30.1	58.4	0.5	6.1
20 to 49 employees	E2	125	3.8	30.3	3.1	5.5	21.2	69.7	64.7	133.7	2.1	15.4
50 to 99 employees	–	52	3.6	29.0	3.0	5.4	19.8	64.6	70.1	132.0	3.3	19.1
100 to 249 employees	–	23	3.1	25.3	2.5	4.3	17.6	51.5	70.0	120.1	1.3	20.1
250 to 499 employees	–	6	(2.8)	(23.4)	(2.2)	(4.0)	(14.9)	(52.0)	(95.1)	(149.2)	(1.6)	(19.0)
500 to 999 employees	–	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	301	0.7	5.4	0.7	1.0	3.6	10.0	12.9	22.9	0.3	3.0
INDUSTRY 2396, AUTOMOTIVE AND APPAREL TRIMMINGS												
Total	**–**	**714**	**30.9**	**476.4**	**26.3**	**51.7**	**373.9**	**1 000.1**	**1 162.5**	**2 165.7**	**36.1**	**194.2**
Establishments with an average of—												
1 to 4 employees	E8	327	0.5	6.8	0.5	0.8	5.3	12.4	14.9	27.6	0.3	3.0
5 to 9 employees	E6	86	0.6	7.3	0.5	0.9	5.7	13.6	16.8	30.3	0.4	3.3
10 to 19 employees	E2	113	1.6	17.1	1.3	2.4	12.2	31.0	36.4	67.3	0.7	7.0
20 to 49 employees	E1	124	3.9	42.1	3.2	6.1	28.2	83.5	108.2	192.1	1.9	25.3
50 to 99 employees	–	33	2.4	21.6	2.1	3.8	16.4	45.0	51.3	95.1	1.2	13.0
100 to 249 employees	–	19	2.7	26.8	2.3	4.3	20.2	54.2	95.9	150.9	2.8	17.1
250 to 499 employees	–	3	1.2	12.9	1.1	2.2	10.9	33.6	37.9	71.2	3.7	6.3
500 to 999 employees	–	2	(18.1)	(341.7)	(15.3)	(31.3)	(275.1)	(726.9)	(801.1)	(1 531.1)	(25.1)	(119.1)
1,000 to 2,499 employees	–	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	–	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	313	0.7	10.0	0.7	1.1	7.8	17.5	20.5	38.0	0.5	4.3

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2397, SCHIFFLI MACHINE EMBROIDERIES												
Total	**E1**	**363**	**6.0**	**56.3**	**5.3**	**10.4**	**42.5**	**96.7**	**62.0**	**158.0**	**3.3**	**10.1**
Establishments with an average of—												
1 to 4 employees	E7	170	0.4	3.8	0.4	0.7	3.0	7.0	6.0	13.1	0.4	0.6
5 to 9 employees	E2	75	0.5	5.6	0.4	0.9	4.3	9.9	7.7	17.5	0.3	0.9
10 to 19 employees	–	60	0.8	8.9	0.7	1.5	7.0	14.4	9.4	23.9	0.1	1.2
20 to 49 employees	E1	35	1.1	9.9	0.9	1.9	7.7	18.7	13.5	32.0	0.6	1.7
50 to 99 employees	–	14	0.9	8.3	0.8	1.6	7.0	15.0	7.8	22.6	1.0	1.5
100 to 249 employees	–	6	0.7	7.2	0.6	1.0	4.4	11.1	9.3	20.6	0.2	1.2
250 to 499 employees	–	1	(1.6)	(12.5)	(1.4)	(2.8)	(9.2)	(20.5)	(8.4)	(28.4)	(0.7)	(3.2)
500 to 999 employees	–	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	148	0.3	3.3	0.3	0.6	2.5	5.9	4.7	10.5	0.4	0.5
INDUSTRY 2399, FABRICATED TEXTILE PRODUCTS, N.E.C.												
Total	**–**	**877**	**30.8**	**261.4**	**25.7**	**46.5**	**185.2**	**525.9**	**628.2**	**1 145.4**	**19.0**	**164.6**
Establishments with an average of—												
1 to 4 employees	E8	335	0.6	4.8	0.5	0.9	3.4	5.7	10.6	20.0	0.3	2.9
5 to 9 employees	E5	136	0.9	7.6	0.8	1.3	5.3	16.6	16.8	33.3	0.5	4.5
10 to 19 employees	E2	134	1.8	15.3	1.5	2.6	10.2	29.2	31.9	60.8	0.7	8.0
20 to 49 employees	E1	139	4.5	35.4	3.7	6.2	23.3	71.0	78.2	148.3	2.7	21.1
50 to 99 employees	–	85	4.6	33.6	3.9	7.2	24.6	71.4	75.9	145.8	2.7	19.6
100 to 249 employees	–	49	7.0	55.1	5.7	10.7	38.4	117.3	124.6	235.4	5.7	46.9
250 to 499 employees	–	10	3.5	25.3	3.0	5.2	19.5	60.9	97.9	156.5	1.7	21.9
500 to 999 employees	–	5	(7.9)	(84.2)	(6.6)	(12.4)	(60.5)	(153.9)	(192.4)	(345.2)	(4.5)	(40.0)
1,000 to 2,499 employees	–	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E9	333	0.9	7.8	0.9	1.4	5.5	15.9	17.3	33.1	0.5	4.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2391	**Curtains and draperies:**										
	Entire industry	1 712	31.7	224.7	27.2	47.9	163.6	407.3	605.5	1 013.1	7.2
	Establishments with 75 percent specialization or more	1 596	26.2	186.6	22.4	39.3	133.7	356.3	561.7	915.4	6.1
2392	**House furnishings, n.e.c.:**										
	Entire industry	1 051	47.5	366.4	39.8	75.4	260.0	782.9	1 541.4	2 294.0	26.9
	Establishments with 75 percent specialization or more	954	37.8	295.2	31.5	59.8	207.8	640.1	1 270.6	1 881.1	20.4
23926	Bedspreads and bedsets, not made in weaving mills:										
	Establishments with this product class primary	64	6.0	44.3	5.0	9.5	31.7	87.1	195.1	277.0	3.2
	Establishments with 75 percent specialization or more in class	45	3.8	26.2	3.2	6.1	20.9	59.6	135.5	188.9	2.6
23928	Sheets and pillowcases, not made in weaving mills:										
	Establishments with this product class primary	22	5.5	43.9	4.4	8.7	33.1	99.7	346.9	447.7	2.5
	Establishments with 75 percent specialization or more in class	12	3.8	32.9	3.2	6.4	25.6	74.6	230.8	305.2	1.9
23929	Towels and washcloths, not made in weaving mills:										
	Establishments with this product class primary	20	3.9	32.5	3.5	6.8	24.9	81.7	240.1	306.1	3.1
	Establishments with 75 percent specialization or more in class	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2393	**Textile bags:**										
	Entire industry	228	8.2	66.7	6.8	12.9	48.8	122.2	200.5	321.8	5.8
	Establishments with 75 percent specialization or more	191	5.1	41.3	4.2	7.9	28.7	72.0	117.4	189.7	3.3
2394	**Canvas and related products:**										
	Entire industry	1 003	13.9	121.6	11.0	19.3	75.1	237.4	254.2	485.8	8.4
	Establishments with 75 percent specialization or more	952	11.9	105.7	9.4	16.6	65.2	212.2	224.2	431.9	8.0
2395	**Pleating and stitching:**										
	Entire industry	780	16.4	132.8	13.5	23.4	90.2	285.6	352.4	635.0	9.3
	Establishments with 75 percent specialization or more	711	14.1	114.2	11.5	20.3	77.3	253.9	324.2	575.5	8.6
23951	Embroideries, stamped art goods, and art needlework:										
	Establishments with this product class primary	148	7.5	63.8	5.9	10.2	41.4	155.6	251.5	405.3	5.5
	Establishments with 75 percent specialization or more in class	134	6.7	57.3	5.3	9.5	37.5	142.7	236.3	377.2	4.7
23959	Commission embroidering, tucking, pleating, etc.:										
	Establishments with this product class primary	89	3.5	26.3	2.9	5.1	18.4	43.5	16.5	59.3	1.3
	Establishments with 75 percent specialization or more in class	84	2.7	20.9	2.3	4.0	14.9	35.8	13.6	48.8	(D)
2396	**Automotive and apparel trimmings:**										
	Entire industry	714	30.9	476.4	26.3	51.7	373.9	1 000.1	1 162.5	2 165.7	36.1
	Establishments with 75 percent specialization or more	665	28.9	456.2	24.5	48.2	357.4	961.2	1 127.3	2 091.6	32.6
23961	Men's and boys' suit and coat findings:										
	Establishments with this product class primary	32	1.5	16.5	1.3	2.3	11.0	29.3	79.8	110.1	1.0
	Establishments with 75 percent specialization or more in class	29	1.4	15.4	1.2	2.2	10.4	27.1	76.6	104.6	(D)
23962	Automobile trimmings:										
	Establishments with this product class primary	33	20.1	363.9	17.4	35.4	296.2	790.6	891.2	1 683.3	31.1
	Establishments with 75 percent specialization or more in class	29	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23963	Other trimmings and findings, including furniture:										
	Establishments with this product class primary	120	4.8	46.4	3.8	7.0	28.4	91.7	99.8	192.3	2.1
	Establishments with 75 percent specialization or more in class	111	4.6	44.3	3.6	6.8	27.3	88.1	94.9	183.8	(D)
2397	**Schiffli machine embroideries:**										
	Entire industry	363	6.0	56.3	5.3	10.4	42.5	96.7	62.0	158.0	3.3
	Establishments with 75 percent specialization or more	342	5.0	48.4	4.4	8.5	36.3	85.9	57.2	142.1	(D)
2399	**Fabricated textile products, n.e.c.:**										
	Entire industry	877	30.8	261.4	25.7	46.5	185.2	525.9	628.2	1 145.4	19.0
	Establishments with 75 percent specialization or more	792	26.4	228.0	22.0	40.1	160.4	455.8	560.7	1 008.6	15.9

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. **Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967**

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2391	Curtains and draperies	1977	1,013.1	867.0	44.8	101.3	95	936.7	867.0	69.7	93
		1972	762.2	581.1	45.1	136.0	93	626.2	581.1	45.1	93
		1967	418.7	357.5	11.9	49.3	97	374.9	357.5	17.4	95
2392	Housefurnishings, n.e.c.	1977	2,293.9	1,922.3	227.8	143.8	89	3,145.4	1,922.3	1,223.1	61
		1972	1,517.9	1,212.5	213.3	92.1	85	2,123.5	1,212.5	911.0	57
		1967	962.8	794.5	105.5	62.8	88	1,520.2	794.5	725.7	52
2393	Textile bags	1977	321.8	232.9	50.6	38.3	82	277.8	232.9	44.9	84
		1972	255.1	208.3	15.5	31.3	93	231.5	208.3	23.2	90
		1967	291.1	246.8	16.3	28.0	94	277.9	246.8	31.1	89
2394	Canvas and related products	1977	486.9	429.9	21.1	35.9	93	465.6	429.9	35.7	92
		1972	276.4	240.0	13.6	22.8	95	272.1	240.0	32.1	88
		1967	273.6	239.7	15.2	18.7	94	253.4	239.7	13.7	95
2395	Pleating and stitching	1977	634.9	561.5	21.6	51.8	96	572.9	561.5	11.4	98
		1972	306.3	256.3	34.6	15.4	88	261.8	256.3	5.5	98
		1967	139.3	118.0	3.9	17.4	97	123.6	118.0	5.6	95
2396	Automotive and apparel trimmings	1977	2,165.7	2,098.6	35.4	31.7	98	2,191.1	2,098.6	92.5	96
		1972	1,133.0	1,090.5	17.3	25.2	98	1,146.2	1,090.5	55.7	95
		1967	777.4	741.4	13.4	22.6	98	797.0	741.4	55.6	93
2397	Schiffli machine embroideries	1977	158.0	143.6	5.0	9.4	97	146.3	143.6	2.7	98
		1972	120.5	98.2	3.7	18.6	96	99.1	98.2	.9	99
		1967	99.6	83.1	2.0	14.5	98	83.5	83.1	.4	99
2399	Fabricated textile products, n.e.c.	1977	1,145.4	1,032.6	65.6	47.2	94	1,158.9	1,032.6	126.3	89
		1972	724.6	599.7	72.8	52.1	89	733.9	599.7	134.2	82
		1967	535.1	437.6	53.6	43.9	89	529.3	437.6	91.7	83

n.e.c. Not elsewhere classified.

Table 5c. Industry-Product Analysis—Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Curtains and draperies (SIC 2391)	House furnishings, n.e.c. (SIC 2392)	Textile bags (SIC 2393)	Canvas and related products (SIC 2394)	Pleating and stitching (SIC 2395)	Automotive and apparel trimmings (SIC 2396)	Schiffli machine embroideries (SIC 2397)	Fabricated textile products, n.e.c. (SIC 2399)	Other industries
	Total	(X)	1,013.1	2,293.9	321.8	486.9	634.9	2,165.7	158.0	1,145.4	(X)
	Primary products	(X)	867.0	1,922.3	232.9	429.9	561.5	2,098.6	143.6	1,032.6	(X)
	Secondary products	(X)	44.8	227.8	50.6	21.1	21.6	35.4	5.0	65.6	(X)
	Miscellaneous receipts	(X)	101.3	143.8	38.3	35.9	51.8	31.7	9.4	47.2	(X)
23910	Curtains and draperies, except lace	936.7	867.0	59.8	(D)	(D)	(D)	-	-	(D)	(D)
2392-	Housefurnishings, n.e.c.	3,145.4	(D)	1,922.3	(D)	(D)	(D)	(D)	-	(D)	1,160.5
23926 22110	Bedspreads and bedsets	400.3	(D)	255.9	-	(D)	(D)	-	-	(D)	109.8
23928 22118 22219	Sheets and pillowcases	906.3	(D)	(D)	(D)	(D)	(D)	-	-	-	563.0
23929 22119	Towels and washcloths	693.0	(D)	(D)	(D)	(D)	(D)	-	-	-	425.2
23920	Other housefurnishings	1,145.8	(D)	1,055.7	(D)	(D)	(D)	(D)	-	(D)	62.6
23930	Textile bags, except laundry, wardrobe, and shoe	277.8	-	(D)	232.9	5.8	-	-	-	(D)	36.7
23940	Canvas and related products	465.6	(D)	(D)	(D)	429.9	(D)	(D)	-	(D)	17.0
2395-	Pleating and stitching	572.9	-	(D)	(D)	(D)	561.5	(D)	(D)	(D)	6.8
23951	Embroideries, stamped art goods and art needlework	390.3	-	(D)	-	(D)	381.8	(D)	(D)	(D)	4.3
23959	Commission embroidering, tucking, pleating, etc.	56.4	-	-	(D)	-	53.8	(D)	-	-	(D)
23950	Pleating and stitching, n.s.k.	126.2	-	(D)	-	-	125.8	-	-	-	(D)
2396-	Automotive and apparel trimmings	2,191.4	-	(D)	(D)	(D)	(D)	2,098.6	(D)	(D)	87.9
23961	Men's and boys' suit and coat findings	104.4	-	(D)	-	-	(D)	103.2	-	-	(D)
23962	Automobile trimmings	1,737.7	-	(D)	-	-	-	1,655.7	-	-	(D)
23963	Other trimmings and findings, including furniture	187.4	-	-	-	-	(D)	180.3	(D)	(D)	5.0
23960	Automotive and apparel trimmings, n.s.k.	161.6	-	(D)	(D)	(D)	(D)	159.3	-	.2	1.2
23970	Schiffli machine embroideries	146.3	-	(D)	-	-	(D)	(D)	143.6	-	(D)
23990	Fabricated textile products, n.e.c.	1,158.9	(D)	19.1	9.1	5.1	(D)	1.1	-	1,032.6	88.1
	Other shipments by 4-digit product group:										
2221-	Manmade fiber and silk broad woven fabrics	(X)	-	(D)	-	-	-	-	-	-	(X)
2258-	Warp knit fabrics	(X)	(D)	-	-	-	-	-	-	-	(X)
2262-	Finished manmade fiber and silk broad woven fabrics	(X)	-	(D)	-	-	(D)	(D)	-	(D)	(X)
2272-	Tufted carpets and rugs	(X)	(D)	(D)	-	-	-	-	-	.1	(X)
2293-	Paddings and upholstery filling	(X)	-	-	-	-	(D)	-	-	(D)	(X)
2295-	Coated fabrics, not rubberized	(X)	-	-	-	(D)	-	(D)	-	(D)	(X)
2328-	Men's and boys' work clothing	(X)	-	(D)	-	-	-	-	-	-	(X)
2329-	Men's and boys' clothing, n.e.c.	(X)	-	-	-	(D)	-	-	-	(D)	(X)
2339-	Women's and misses' outerwear, n.e.c.	(X)	-	(D)	(D)	-	-	-	-	-	(X)
2352-	Hats and caps, except millinery	(X)	-	-	(D)	-	-	-	(D)	(D)	(X)
2369-	Children's outerwear, n.e.c.	(X)	-	-	-	-	(D)	-	-	-	(X)
2499-	Wood products, n.e.c.	(X)	(D)	(D)	-	-	-	-	-	(D)	(X)
2512-	Upholstered household furniture	(X)	(D)	(D)	-	-	-	-	-	(D)	(X)
2515-	Mattresses and bedsprings	(X)	(D)	.7	-	(D)	-	-	-	(D)	(X)
2519-	Household furniture, n.e.c.	(X)	-	(D)	-	-	-	-	-	-	(X)
2531-	Public building and related furniture	(X)	-	(D)	-	(D)	-	-	-	(D)	(X)
2591-	Drapery hardware and blinds and shades	(X)	1.0	(D)	-	(D)	-	-	-	-	(X)
2641-	Coated and glazed paper	(X)	-	(D)	-	-	-	(D)	-	-	(X)
2643-	Bags, except textile bags	(X)	-	(D)	20.0	(D)	-	-	-	(D)	(X)
2645-	Die-cut paper and board	(X)	-	-	-	-	-	(D)	-	-	(X)
2751-	Commercial printing, letterpress	(X)	-	-	(D)	-	(D)	(D)	-	(D)	(X)
2752-	Commercial printing, lithographic	(X)	-	-	-	-	(D)	(D)	-	(D)	(X)
2842-	Polishes and sanitation goods	(X)	-	2.5	-	-	-	-	-	-	(X)
3079-	Miscellaneous plastics products	(X)	-	(D)	(D)	(D)	-	(D)	-	(D)	(X)
3199-	Leather goods, n.e.c.	(X)	-	-	-	-	-	(D)	-	(D)	(X)
3542-	Machine tools, metal forming types	(X)	-	-	-	-	-	(D)	-	-	(X)
3842-	Surgical appliances and supplies	(X)	-	(D)	(D)	-	-	-	-	4.3	(X)
3949-	Sporting and athletic goods, n.e.c.	(X)	-	-	(D)	(D)	-	-	-	(D)	(X)
3991-	Brooms and brushes	(X)	-	8.2	-	-	-	-	-	-	(X)
	Miscellaneous receipts:										
93000 00	Contract work	(X)	64.7	59.9	2.2	6.8	43.0	17.1	8.3	19.5	(X)
99980 98	Other miscellaneous receipts	(X)	4.7	2.4	1.9	5.4	.3	1.5	-	2.8	(X)
99989 00	Resales	(X)	31.8	81.5	34.2	23.7	8.5	13.1	1.1	24.9	(X)

See footnotes at end of table.

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2392-	2262 Finishing plants, manmade fibers and silk	(D)
	2297 Nonwoven fabrics	(D)
	2328 Men's and boys' work clothing	(D)
	2515 Mattresses and bedsprings	(D)
	2842 Polishes and sanitation goods	(D)
	3991 Brooms and brushes	17.0
2393-	2643 Bags, except textile bags	(D)
2396-	3465 Automotive stampings	(D)
2399-	2272 Tufted carpets and rugs	(D)
	2297 Nonwoven fabrics	(D)
	2329 Men's and boys' clothing, n.e.c	7.5
	2647 Sanitary paper products	(D)
	3079 Miscellaneous plastics products	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	CURTAINS AND DRAPERIES						
2391- --	Total	.....	(NA)	(X)	[3]936.7	(X)	[3]626.2
23910 --	Curtains and draperies, except lace:						
	Window curtains, excluding lace curtains:						
23910 11	Wholly or chiefly cotton	Million pairs or sets.	32	**14.9	45.6	[4]29.4	58.8
	Wholly or chiefly manmade fiber fabrics:						
23910 15	Glass fiber fabrics		5	*1.6	7.7	5.2	12.0
23910 17	Other manmade fiber fabrics (rayon, acetate, nylon, etc.)		49	37.4	162.8	29.7	68.3
23910 18	Other materials, including plastics		15	2.0	17.7	[3]5.8	12.4
	Draperies:						
23910 51	Wholly or chiefly cotton		73	*12.5	127.3	19.4	127.9
	Wholly or chiefly manmade fiber fabrics:						
23910 55	Glass fiber fabrics		19	2.9	20.1	8.3	31.9
23910 57	Other manmade fiber fabrics (rayon, acetate, nylon, etc.)		159	**26.0	265.6	20.7	129.5
23910 58	Other materials, including plastics	Million pairs or sets.	36	*2.4	26.6	2.9	11.1
23910 00	Curtains and draperies, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	211.7	(X)	99.6
23910 02	Curtains and draperies, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	51.6	(X)	74.7
	HOUSEFURNISHINGS, N.E.C.						
2211- pt. 2392- --	Total	.....	(NA)	(X)	3,145.4	(X)	2,123.5
22110 pt. 23926 --	Bedspreads and bedsets	Millions.....	(NA)	(X)	400.3	(X)	312.5
	Made in cotton weaving mills		(NA)	(X)	400.3	(X)	312.5
	Made in other industries		(NA)				
	Tufted:						
23926 11	Wholly or chiefly cotton tufting yarns		10	**1.8	11.0	11.6	60.5
23926 21	Other tufting yarns		11	2.1	27.5	4.3	23.9
	Jacquard woven:						
	Wholly or chiefly cotton:						
22110 41	Made in cotton weaving mills		4	(D)	(D)	3.7	24.0
23926 51	Made in other industries		3	(D)	(D)	3.7	22.7
23926 59	Other jacquard woven yarns		5	(D)	(D)	.2	3.2
	Quilted:						
23926 31	Wholly or chiefly cotton		30	(S)	52.8	([5])	([5])
23926 39	Other quilted yarns		50	*6.2	117.0		
	Other than tufted, jacquard woven, and quilted:						
	Wholly or chiefly cotton:						
22110 45	Made in cotton weaving mills		5	5.4	68.8	2.8	21.9
23926 73	Made in other industries		6	3.5	33.2	10.1	59.0
23926 77	Other	Millions.....	13	4.3	40.1	9.7	93.9
23926 00	Bedspreads and bedsets, n.s.k.	.....	(NA)	(X)	6.9	(X)	3.4

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Product shipments[1]	Quantity of production for all purposes	Product shipments
					Quantity[2] Value (million dollars)		Quantity Value (million dollars)
2211- pt. 2392- --	HOUSEFURNISHINGS, N.E.C.						
	Sheet and pillowcases made from woven fabrics:						
	As reported in census of manufactures	.....	(NA)	(X)	(X) 906.3	(X)	(X) 634.8
	Made in weaving mills:						
22118 00	Chiefly cotton	.....	-	(X)	(X) -	(X)	(X) 77.8
22219 00	Chiefly manmade fiber	.....	9	(X)	(X) 426.8	(X)	(X) 238.5
23928 00	Made from purchased fabrics	.....	26	(X)	(X) 479.5	(X)	(X) 318.5

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972**—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977				1972		
			Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Product shipments[1]		Quantity of production for all purposes	Product shipments	
					Quantity[2]	Value (million dollars)		Quantity	Value (million dollars)
2211-pt. 2392--	HOUSEFURNISHINGS, N.E.C.--Con.								
	Sheet and pillowcases made from woven fabrics--Con.								
	As reported in Current Industrial Report MQ-23X, Sheets, Pillowcases, and Towels:								
	Sheets and pillowcases	Million dozen.	(NA)	30.9	31.2	878.6	32.7	32.0	633.8
23928 04	Crib size sheets		(NA)	.6	.7	13.0	1.0	.9	9.6
	Other sheets		(NA)	16.3	16.6	661.0	17.6	17.3	504.2
	By type:								
	Flat sheets		(NA)	9.7	9.8	392.9	10.4	10.1	291.0
23928 03	Cotton fabrics, including blends, chiefly cotton		(NA)	(D)	(D)	(D)	(NA)	(NA)	(NA)
	Polyester/cotton blends:								
23928 07	Less than 180 count		(NA)	5.2	5.5	186.9	(NA)	(NA)	(NA)
23928 10	180 count or more		(NA)	4.4	4.2	198.1	(NA)	(NA)	(NA)
23928 11	All other fabrics		(NA)	.2	.2	7.9	(NA)	(NA)	(NA)
	Fitted sheets		(NA)	6.6	6.8	268.1	7.2	7.2	213.2
23928 20	Cotton fabrics, including blends, chiefly cotton		(NA)	(D)	(D)	(D)	.8	.9	18.3
	Polyester/cotton blends:								
23928 24	Less than 180 count		(NA)	3.5	3.8	127.4	(NA)	(NA)	(NA)
23928 28	180 count or more		(NA)	3.0	2.9	135.6	(NA)	(NA)	(NA)
23928 30	All other fabrics		(NA)	.1	.1	5.2	-	-	-
	By size:								
23928 52	King size		(NA)	(X)	1.1	75.8	(X)	(X)	(X)
23928 53	Queen size		(NA)	(X)	1.9	105.6	(X)	(X)	(X)
23928 55	Full size		(NA)	(X)	6.8	263.9	(X)	(X)	(X)
23928 57	Twin size		(NA)	(X)	6.5	205.1	(X)	(X)	(X)
23928 59	Single and smaller		(NA)	(X)	.4	10.7	(X)	(X)	(X)
23928 60	Sheets (except crib) shipped for export		(NA)	(X)	1.4	49.0	(X)	(X)	(X)
	Pillowcases		(NA)	14.0	13.9	185.2	14.1	13.8	120.0
23923 71	Cotton fabrics, including blends, chiefly cotton		(NA)	(D)	(D)	(D)	(NA)	(NA)	(NA)
	Polyester/cotton blends:								
23928 73	Less than 180 count		(NA)	7.3	7.4	84.9	(NA)	(NA)	(NA)
23928 75	180 count or more		(NA)	6.3	6.2	95.7	(NA)	(NA)	(NA)
23928 77	All other fabric		(NA)	.3	.3	4.5	(NA)	(NA)	(NA)
23928 80	Sheets and pillowcases, n.s.k.	Million dozen.	(NA)	(X)	(X)	19.4	(NA)	(NA)	(NA)
	Towels and washcloths made from woven fabrics:								
	As reported in census of manufactures	.....	(NA)	(X)	(X)	693.0	(X)	(X)	403.0
	Made in weaving mills:								
22119 00	Chiefly cotton	.....	5	(X)	(X)	416.4	(X)	(X)	319.0
22210 15	Chiefly manmade fiber	.....	1	(X)					
23929 00	Made from purchased fabric	.....	(NA)	(X)	(X)	276.6	(X)	(X)	84.0
	As reported in Current Industrial Report MQ-23X, Sheets, Pillowcases, and Towels	Million dozen.	(NA)	140.5	142.0	698.4	(NA)	(NA)	391.3
	Finished terry woven towels		(NA)	46.3	47.1	576.2	47.7	48.9	312.2
	By type:								
23929 12	Sheared		(NA)	15.3	15.5	238.0			
23929 13	Nonsheared		(NA)	31.0	31.5	338.3			
	By end use:								
23929 14	Kitchen		(NA)	4.7	5.1	23.0			
23929 15	Bath size		(NA)	21.2	21.5	355.1			
23929 16	Hand, face, guest, and fingertip		(NA)	17.4	17.8	149.1	47.7	48.9	312.2
23929 17	All other types, including larger than bath (e.g., queen/king bath towels, bath sheets, beach towels, and bath mats)		(NA)	2.9	2.6	49.0			
23929 24	Huck and crash towels		(NA)	70.1	70.4	29.2	(NA)	(NA)	29.0
23929 53	Terry washcloths	Million dozen.	(NA)	24.1	24.5	93.0	30.4	30.6	50.1

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
2211- pt. 2392- --	HOUSEFURNISHINGS, N.E.C.						
23920 --	Other housefurnishings	.....	(NA)	(X)	1,145.8	(X)	773.2
23920 19	Shower bath curtains, including plastics (unsupported film), coated fabrics and all other	Millions	18	*18.5	62.7	[4]22.5	44.5
23920 23	Comforters and wadded quilts	Millions	28	*7.8	81.6	[4]7.3	32.9
	Quilted products, except comforters and wadded quilts:						
23920 31	Mattress protectors	Millions	15	*20.3	76.6	[4]12.2	47.9
23920 38	Other, including baby pads	.....	24	(X)	18.7	(X)	16.1
	Tablecloths:						
23920 42	Plastics or plastics coated or laminated	Million dozen.	23	*1.9	46.6	(NA)	28.7
23920 44	All other tablecloths		24	(S)	57.2	(NA)	34.9
23920 45	Napkins	Million dozen.	17	(S)	24.5	(S)	6.7
23920 47	Place mats and place-mat sets, including plastics	.....	13	(X)	17.8	(X)	11.2
23920 49	Other related articles, except lace (dresser covers and scarves, table sets--luncheon, bridge, and similar--dollies, tray cloths, etc.), including plastics	.....	10	(X)	21.3	(X)	19.3
	Pillows:						
	Bed pillows:						
23920 52	Foam rubber	Millions	17	(S)	23.0	[4]8.3	19.9
23920 53	Other materials		27	*15.8	85.7	[6]23.2	50.8
	Fancy pillows and cushions:						
23920 57	Foam rubber		15	*3.7	21.5	[4]6.7	19.1
23920 59	Other materials		34	(S)	64.2	[4]14.1	42.5
	Slip covers:						
23920 63	Furniture made from fabric, plastics, and other material, except paper products		14	*11.5	55.5	(NA)	52.1
23920 65	Mattress		12	*12.1	18.5	(S)	11.7
23920 69	Other		7	15.3	6.8		
	Mops and dusters:						
23920 71	Dry mops and dusters, excluding dusting cloths		28	**18.4	31.0	[4]31.4	22.9
23920 73	Wet mops, except sponge		43	**28.0	34.6	[4]31.7	20.6
23920 75	Sponge mops	Millions	16	(S)	29.0	[4]11.3	12.2
23920 81	Bags--laundry, wardrobe, and shoe bags	.....	20	(X)	21.4	(X)	16.7
23920 98	All other house furnishings, except embroidered	.....	59	(X)	87.5	(X)	67.0
23920 00	Housefurnishings, n.e.c., n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	198.3	(X)	143.2
23920 02	Housefurnishings, n.e.c., n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	61.7	(X)	52.3
	TEXTILE BAGS						
2393- --	Total	.....	(NA)	(X)	277.8	(X)	231.5
23930 --	Textile bags, except laundry, wardrobe, and shoe:						
23930 11	Cotton, including cotton canvass and open mesh cotton	Mil. lin. yd.	39	79.7	51.7	[4]121.9	53.0
23930 18	Spun paper		4	86.1	19.4	[6]79.6	15.8
23930 31	Burlap		32	194.8	66.8	[6]338.6	78.0
	Other textile bags:						
23930 95	Wholly or chiefly manmade fiber fabrics		53	*228.2	80.6	[6]171.7	33.8
23930 97	Other fabrics	Mil. lin. yd.	10	*52.7	16.3	[6]103.1	15.2
23930 00	Textile bags, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	30.9	(X)	27.4
23930 02	Textile bags, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	12.1	(X)	8.3

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** — Con.

(Includes value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	1977		1972, value of product shipments (million dollars)
		Number of companies with shipments of $100,000 or more	Value of product shipments[7] (million dollars)	
	CANVAS AND RELATED PRODUCTS			
2394- --	Total	(NA)	465.6	272.1
23940 --	Canvas products:			
	Canvas and related products (made from cotton, nylon, polyester, and other industrial fabrics):			
23940 21	Awnings	65	39.9	16.5
	Tents:			
23940 34	Camping	25	93.3	67.7
23940 36	Other tents, including air supported structures and tension structures	23	58.8	6.8
	Tarpaulins and other covers:			
23940 53	Flat	53	43.9	27.1
23940 55	Fitted	55	37.8	14.0
23940 98	Other canvas products, except bags, including sails, air cushions, fuel containers, etc	116	78.1	62.8
23940 00	Canvas products, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	91.6	40.9
23940 02	Canvas products, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	22.2	36.3
	PLEATING AND STITCHING			
2395- --	Total	(NA)	572.9	261.8
23951 --	Embroideries (except Schiffli-machine products), stamped art goods, and art needlework	(NA)	390.3	132.8
23951 12	Embroideries (except Schiffle-machine products)	35	66.4	39.1
23951 31	Stamped art goods for embroidering needlework, punching, silk screen printing, and quilting	66	305.0	93.7
23951 00	Embroideries (except Schiffli-machine products), stamped art goods, and art needlework, n.s.k	(NA)	18.9	
23959 --	Commission embroidering (except Schiffli-machine), tucking, pleating, etc., for the trade	(NA)	56.4	60.8
23959 11	Embroidering (except Schiffli-machine), on materials owned by others	17	12.3	12.0
23959 31	Contract tucking, pleating, hemstitching, silk screen printing, quilting, and buttonholing, for the trade	52	35.6	48.8
23959 00	Commission embroidering (except Schiffli-machine), tucking, pleating, etc., for trade, n.s.k	(NA)	8.5	
23950 00	Embroideries, stamped art goods, art needlework, and commission receipts for such work, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	103.3	39.8
23950 02	Embroideries, stamped art goods, art needlework, and commission receipts for such work, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	22.9	28.4
	AUTOMOTIVE AND APPAREL TRIMMINGS			
2396- --	Total	(NA)	2,191.1	1,146.2
23961 --	Men's and boys' suit and coat findings, matters' fur, and other hat and cap materials	(NA)	104.4	94.2
23961 11	Men's and boys' coat, suit, and trouser findings	24	94.1	86.9
23961 53	Hat bands, hat linings, tip printing and stamping sweats, cap fronts, etc., made for sale as such; and hatters' fur, cut or blown for sale as such	11	10.3	7.3
23962 --	Automobile trimmings:			
23962 16	Automobile trimmings	27	1,737.7	822.3
23963 --	Other trimmings and findings	(NA)	187.4	147.4
	Trimmings, except automobile:			
23963 11	Women's and children's apparel findings and trimmings	38	43.1	44.5
23963 12	All other, including furniture trimmings	46	66.0	20.3
23963 33	Bias binding for the apparel trade and notion trade, except fused or sealed edge	33	51.5	58.7
23963 45	Ribbons, fused or sealed edge (not woven with fast edges)	12	19.9	15.4
23963 00	All other trimmings and findings, n.s.k	(NA)	6.9	8.5
23960 00	Automotive trimmings, apparel findings, and related products, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	123.6	58.6
23960 02	Automotive trimmings, apparel findings, and related products, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	38.0	23.7

See footnotes at end of table.

(Includes value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of Shipments)

1977 product code	Product	1977		1972, value of product shipments (million dollars)
		Number of companies with shipments of $100,000 or more	Value of product shipments[7] (million dollars)	
	SCHIFFLI MACHINE EMBROIDERIES			
2397- --	Total	(NA)	146.3	99.1
23970 --	Schiffli machine embroideries:			
23970 12	Schiffli machine embroideries	213	135.8	99.1
23970 02	Schiffli machine embroideries, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	10.5	

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	FABRICATED TEXTILE PRODUCTS, N.E.C.						
2399- --	Total	.....	(NA)	(X)	1,158.9	(X)	733.9
29990 --	Fabricated textile products, n.e.c.:						
23990 15	Automobile seat covers	1,000 sets	13	*2,358	23.1	2,699	16.0
23990 25	Seat or safety belts, including shoulder harnesses, except leather	Thousands	14	49,935	362.1	60,754	192.4
23990 26	Woven and knitted diapers	Mil. dozens	4	2.8	15.4	16.5	33.5
23990 27	Disposable, nonwoven fabrics and/or combinations thereof	Mil. dozens	6	[8]1.9	[8]15.9	[8]13.0	[8]7.9
23990 31	Sleeping bags	Thousands	28	4,638	69.6	4,915	64.0
23990 41	Flags, banners, and similar emblems	.....	40	(X)	74.3	(X)	50.9
23990 85	Parachutes	Thousands	10	349.8	35.8	(NA)	28.2
23990 93	Industrial shop towels	1,000 dozens	12	(S)	37.8	6,072	18.7
23990 95	Carpet tiles (tufted and needle-punched)	Mil. sq. yds	6	1,117.6	27.8	(NA)	18.1
23990 98	All other fabricated textile products	.....	153	(X)	289.8	(X)	180.6
23990 00	Fabricated textile products, n.e.c., n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	174.2	(X)	88.7
23990 02	Fabricated textile products, n.e.c., n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	33.1	(X)	34.9

Note: In 1977 Census of Manufactures, shipments data for establishments of small companies, typically those with less than 6 employees, were estimated from administrative records data rather than collected from respondents. These shipments figures (discussed in the Introduction) are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded to appropriate product class (5 digits) followed by "00," or in some cases to appropriate industry (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]Commission receipts are not included in industry total.

[4]10 to 30 percent of quantity was estimated.

[5]For 1972, data are included in bedspreads and bedsets, other than tufted, jacquard woven, and quilted.

[6]30 to 50 percent of quantity was estimated.

[7]Value reported by all producers of product, not just those with shipments of $100,000 or more.

[8]Data exclude disposable diapers made of paper (usually containing pulp or cellulose fibers), which are classified in industry 2647, product code 26472 87.

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
23926, BEDSPREADS AND BEDSETS, NOT MADE IN WEAVING MILLS		
United States	300.4	261.2
Middle Atlantic Division:		
New York	60.3	54.5
New Jersey	7.4	CC
Pennsylvania	6.0	BB
East North Central Division:		
Illinois	4.5	BB
South Atlantic Division:		
North Carolina	65.9	67.2
Georgia	67.9	62.9
Pacific Division:		
California	21.4	
23928, SHEETS AND PILLOWCASES, NOT MADE IN WEAVING MILLS		
United States	479.5	318.5
Middle Atlantic Division:		
New York	2.0	5.3
Pacific Division:		
California	3.8	(NA)
23929, TOWELS AND WASHCLOTHS, NOT MADE IN WEAVING MILLS		
United States	276.6	112.9
Middle Atlantic Division:		
New York	2.8	EE
23951, EMBROIDERIES, STAMPED ART GOODS AND ART NEEDLEWORK		
United States	390.3	132.8
New England Division:		
Massachusetts	2.5	(NA)
Rhode Island	10.3	BB
Middle Atlantic Division:		
New York	97.0	41.2
New Jersey	21.0	10.2
Pennsylvania	14.2	AA
East North Central Division:		
Illinois	7.7	15.9
West North Central Division:		
Iowa	21.0	(NA)
South Atlantic Division:		
South Carolina	4.0	1.2
West South Central Division:		
Texas	3.4	BB
23951, EMBROIDERIES, STAMPED ART GOODS AND ART NEEDLEWORK--Con.		
Pacific Division:		
California	66.1	FF
23959, COMMISSION EMBROIDERING, TUCKING, PLEATING, ETC.		
United States	56.4	60.8
Middle Atlantic Division:		
New York	23.4	33.3
New Jersey	2.5	BB
Pennsylvania	4.7	(NA)
East North Central Division:		
Illinois	2.7	1.2
South Atlantic Division:		
North Carolina	2.5	6.4
Pacific Division:		
California	8.9	4.0
23961, MEN'S AND BOYS' SUIT AND COAT FINDINGS		
United States	104.4	94.2
Middle Atlantic Division:		
New York	11.1	18.6
Pennsylvania	15.3	EE
23962, AUTOMOBILE TRIMMINGS		
United States	1,737.7	822.3
East North Central Division:		
Michigan	1,441.5	GG
Pacific Division:		
California	5.8	AA
23963, OTHER TRIMMINGS AND FINDINGS, INCLUDING FURNITURE		
United States	187.4	147.4
Middle Atlantic Division:		
New York	74.2	59.7
New Jersey	19.1	9.8
Pennsylvania	6.2	8.5
South Atlantic Division:		
North Carolina	13.3	5.0
East South Central Division:		
Tennessee	9.0	BB
West South Central Division:		
Texas	5.0	(NA)
Pacific Division:		
California	11.2	6.8

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available.

Table 6c. **Product Classes—Value Shipped by All Producers: 1963, 1967, 1972 to 1977**

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
23910	Curtains and draperies, except lace	936.7	655.6	636.3	580.0	650.0	626.2	374.9	278.3
2392- 2211 pt.	Housefurnishings, n.e.c.	[2]2,202.3	[2]1,886.5	[2]1,652.7	[2]1,582.1	[2]1,617.5	[2]1,442.3	[2]941.4	[2]1,116.2
23926	Bedspreads and bedsets (not made in weaving mills)	300.4	326.1	285.7	300.2	287.0	266.6	173.8	111.9
	Sheets and pillowcases:								
22118	Made in weaving mills, cotton	-	-	-	4.1	62.9	77.8	268.4	328.8
22219	Made in weaving mills, manmade	426.8	500.0	433.3	385.6	347.3	238.5	-	
23928	Not made in weaving mills	479.5	471.0	416.5	403.1	356.0	318.5	170.1	
	Towels and washcloths:								
22119	Made in weaving mills	416.4	462.2	395.8	401.5	350.5	319.0	270.9	226.4
23929	Not made in weaving mills	276.6	232.0	172.0	115.7	92.0	84.0	30.1	
23920	Other housefurnishings	1,145.8	857.4	778.5	763.1	882.5	773.2	567.4	449.1
23930	Textile bags, except laundry, wardrobe, and shoe	277.8	269.3	260.2	305.7	262.2	231.5	277.9	181.9
23940	Canvas and related products	465.6	303.2	277.5	288.5	303.4	272.1	253.4	153.5
2395-	Pleating and stitching	572.9	(318.5)	(320.9)	270.1	278.8	261.8	123.6	132.2
23951	Embroideries, stamped art goods and art needlework	390.3	(244.2)	(208.4)	148.2	147.0	132.8	37.9	46.0
23959	Commission embroidering, tucking, pleating, etc.	56.4	(77.2)	(78.5)	(78.5)	60.8	60.8	46.0	54.6
23950	Pleating and stitching, n.s.k.	126.2	(*)	(34.0)	(43.4)	71.0	68.2	39.7	31.6
2396-	Automotive and apparel trimmings	2,191.1	1,634.8	1,242.3	1,202.5	1,287.8	1,146.2	797.0	556.3
23961	Men's and boys' suit and coat findings	104.4	92.7	(79.8)	79.9	(81.9)	94.2	55.8	45.0
23962	Automobile trimmings	1,737.7	1,343.7	984.2	905.9	998.5	822.3	513.4	360.2
23963	Other trimmings and findings, including furniture	187.4	(191.8)	(172.6)	(178.5)	130.7	147.4	192.5	127.4
23960	Automotive and apparel trimmings, n.s.k.	161.6	(S)	(5.7)	(38.2)	76.7	82.3	35.3	23.5
23970	Schiffli machine embroideries	146.3	144.3	130.1	114.7	110.4	99.1	83.5	73.0
23990	Fabricated textile products, n.e.c.	1,158.9	1,083.2	1,005.1	961.2	830.7	733.9	529.3	353.8

- Represents zero. *Indicates 10 to 19 percent estimated. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.
(S) Withheld because estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufacturing and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with these estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at the individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]Excludes shipments made in weaving mills.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2391, CURTAINS AND DRAPERIES					
	Materials, containers, and supplies		(X)	542.5	(X)	374.7
	Broad woven fabrics:					
221101	Cotton	Mil. lin. yd.	*118.0	113.3	166.0	102.0
222101	Rayon and acetate		(S)	85.8	117.4	74.7
222105	Nylon		(S)	11.0	15.2	5.3
222104	Polyester		**133.8	101.6	119.0	65.4
220127	Other broad woven fabrics	Mil. lin. yd.	*55.2	41.4		
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes		(X)	1.1	(X)	(X)
970099	All other materials, components, parts, containers, and supplies		(X)	40.1	(X)	29.7
971000	Materials, containers, and supplies, n.s.k.[2]		(X)	148.2	(X)	97.6
	INDUSTRY 2392, HOUSEFURNISHINGS, N.E.C.					
	Materials, containers, and supplies, etc		(X)	1,392.6	(X)	863,2
	Broad woven fabrics:					
221101	Cotton	Mil. lin. yd.	*480.1	401.9	603.6	307.9
222101	Rayon and acetate,		**82.9	33.3	87.5	46.0
222105	Nylon		*87.9	25.3	15.8	5.8
222104	Polyester		412.1	327.5	177.9	121.6
220127	Other broad woven fabrics	Mil. lin. yd.	61.3	61.9		
229503	Plastics coated, impregnated, or laminated fabrics		**75.4	57.9	49.9	29.3
282014	Manmade fibers (staple and tow)	Million lb.	97.7	33.3	44.7	20.9
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes		(X)	26.8	(3)	(3)
970099	All other materials and components, parts, containers, and supplies		(X)	227.1	(X)	195.9
971000	Materials, containers, and supplies, n.s.k.[2]		(X)	197.6	(X)	135.8
	INDUSTRY 2393, TEXTILE BAGS					
	Materials, containers, and supplies, etc		(X)	169.8	(X)	156.3
	Broad woven fabrics:					
221101	Cotton	Mil. lin. yd.	62.3	30.6	85.4	23.2
222105	Nylon		9.9	12.2	.4	.7
222104	Polyester		*21.0	9.0	[4]406.3	[4]65.2
220127	Other broad woven fabrics		235.5	39.7		
224111	Narrow fabrics (less than 12-inch width)		35.6	4.8	(5)	(5)
229503	Plastic coated, impregnated, or laminated fabrics	Mil. lin. yd.	15.4	5.6	18.0	3.5
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes		(X)	4.6	(X)	(5)
970099	All other materials and components, parts, containers, and supplies		(X)	24.7	(NA)	[3]44.5
971000	Materials, containers, and supplies, n.s.k.[2]		(X)	38.6	(X)	19.2
	INDUSTRY 2394, CANVAS AND RELATED PRODUCTS					
	Materials, containers, and supplies, etc		(X)	226.5	(X)	134.0
	Broad woven fabrics:					
221101	Cotton	Mil. lin. yd.	*38.3	32.7	50.6	30.6
222101	Rayon and acetate		**24.4	23.5	5.5	4.8
222105	Nylon					
222104	Polyester		11.5	7.6	3.2	3.6
220127	Other broad woven fabrics	Mil. lin. yd.	(S)	7.3		
229503	Plastic coated, impregnated, or laminated fabrics	Mil. lin. yd.	(S)	25.1	30.3	19.8
970099	All other materials and components, parts, containers, and supplies		(X)	53.6	(X)	34.7
971000	Materials, containers, and supplies, n.s.k.[2]		(X)	76.7	(X)	40.6
	INDUSTRY 2396, AUTOMOTIVE AND APPAREL TRIMMINGS					
	Materials, containers, supplies, etc		(X)	1,131.8	(X)	595.5
229521	Vinyl coated fabrics, with cotton backing	Mil. lin. yd.	60.6	203.0	66.8	128.3
229502	Other coated fabrics		(D)	(D)	(D)	(D)
	Uncoated broad woven fabrics (piece goods):					
221103	Cotton		(S)	36.5	[6]151.0	62.9
222102	Rayon and acetate		16.7	6.2	[7]63.5	25.9
222104	Polyester		54.2	57.6	[7]152.2	49.4
220128	Other broad woven fabrics		(D)	(D)		
224111	Narrow fabrics (less than 12" width)	Mil. lin. yd.	98.4	17.4	(X)	(X)
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	Mil. lb.	8.0	22.6	(X)	(X)
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes		(X)	22.6	(X)	(X)
970099	All other materials and components, parts, containers, and supplies		(X)	461.0	(X)	195.9
971000	Materials, containers, supplies, n.s.k.[2]		(X)	114.2	(X)	53.4

See footnotes at end of table.

Table 6c. **Product Classes — Value Shipped by All Producers: 1963, 1967, 1972 to 1977**

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
23910	Curtains and draperies, except lace	936.7	655.6	636.3	580.0	650.0	626.2	374.9	278.3
2392-2211 pt.	Housefurnishings, n.e.c.	[2]2,202.3	[2]1,886.5	[2]1,652.7	[2]1,582.1	[2]1,617.5	[2]1,442.3	[2]941.4	[2]1,116.2
23926	Bedspreads and bedsets (not made in weaving mills)	300.4	326.1	285.7	300.2	287.0	266.6	173.8	111.9
	Sheets and pillowcases:								
22118	Made in weaving mills, cotton	-	-	-	4.1	62.9	77.8	268.4	328.8
22219	Made in weaving mills, manmade	426.8	500.0	433.3	385.6	347.3	238.5	-	
23928	Not made in weaving mills	479.5	471.0	416.5	403.1	356.0	318.5	170.1	
	Towels and washcloths:								
22119	Made in weaving mills	416.4	462.2	395.8	401.5	350.5	319.0	270.9	226.4
23929	Not made in weaving mills	276.6	232.0	172.0	115.7	92.0	84.0	30.1	
23920	Other housefurnishings	1,145.8	857.4	778.5	763.1	882.5	773.2	567.4	449.1
23930	Textile bags, except laundry, wardrobe, and shoe	277.8	269.3	260.2	305.7	262.2	231.5	277.9	181.9
23940	Canvas and related products	465.6	303.2	277.5	288.5	303.4	272.1	253.4	153.5
2395-	Pleating and stitching	572.9	(318.5)	(320.9)	270.1	278.8	261.8	123.6	132.2
23951	Embroideries, stamped art goods and art needlework	390.3	(244.2)	(208.4)	148.2	147.0	132.8	37.9	46.0
23959	Commission embroidering, tucking, pleating, etc.	56.4	(77.2)	(78.5)	(78.5)	60.8	60.8	46.0	54.6
23950	Pleating and stitching, n.s.k.	126.2	(*)	(34.0)	(43.4)	71.0	68.2	39.7	31.6
2396-	Automotive and apparel trimmings	2,191.1	1,634.8	1,242.3	1,202.5	1,287.8	1,146.2	797.0	556.3
23961	Men's and boys' suit and coat findings	104.4	92.7	(79.8)	79.9	(81.9)	94.2	55.8	45.0
23962	Automobile trimmings	1,737.7	1,343.7	984.2	905.9	998.5	822.3	513.4	360.2
23963	Other trimmings and findings, including furniture	187.4	(191.8)	(172.6)	(178.5)	130.7	147.4	192.5	127.4
23960	Automotive and apparel trimmings, n.s.k.	161.6	(S)	(5.7)	(38.2)	76.7	82.3	35.3	23.5
23970	Schiffli machine embroideries	146.3	144.3	130.1	114.7	110.4	99.1	83.5	73.0
23990	Fabricated textile products, n.e.c.	1,158.9	1,083.2	1,005.1	961.2	830.7	733.9	529.3	353.8

- Represents zero. *Indicates 10 to 19 percent estimated. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.
(S) Withheld because estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufacturing and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with these estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at the individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]Excludes shipments made in weaving mills.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2391, CURTAINS AND DRAPERIES					
	Materials, containers, and supplies		(X)	542.5	(X)	374.7
	Broad woven fabrics:					
221101	Cotton	Mil. lin. yd.	*118.0	113.3	166.0	102.0
222101	Rayon and acetate		(S)	85.8	117.4	74.7
222105	Nylon		(S)	11.0	15.2	5.3
222104	Polyester		**133.8	101.6	119.0	65.4
220127	Other broad woven fabrics	Mil. lin. yd.	*55.2	41.4		
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes		(X)	1.1	(X)	(X)
970099	All other materials, components, parts, containers, and supplies		(X)	40.1	(X)	29.7
971000	Materials, containers, and supplies, n.s.k.[2]		(X)	148.2	(X)	97.6
	INDUSTRY 2392, HOUSEFURNISHINGS, N.E.C.					
	Materials, containers, and supplies, etc		(X)	1,392.6	(X)	863,2
	Broad woven fabrics:					
221101	Cotton	Mil. lin. yd.	*480.1	401.9	603.6	307.9
222101	Rayon and acetate,		**82.9	33.3	87.5	46.0
222105	Nylon		*87.9	25.3	15.8	5.8
222104	Polyester		412.1	327.5	177.9	121.6
220127	Other broad woven fabrics	Mil. lin. yd.	61.3	61.9		
229503	Plastics coated, impregnated, or laminated fabrics		**75.4	57.9	49.9	29.3
282014	Manmade fibers (staple and tow)	Million lb.	97.7	33.3	44.7	20.9
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes		(X)	26.8	(3)	(3)
970099	All other materials and components, parts, containers, and supplies		(X)	227.1	(X)	195.9
971000	Materials, containers, and supplies, n.s.k.[2]		(X)	197.6	(X)	135.8
	INDUSTRY 2393, TEXTILE BAGS					
	Materials, containers, and supplies, etc		(X)	169.8	(X)	156.3
	Broad woven fabrics:					
221101	Cotton	Mil. lin. yd.	62.3	30.6	85.4	23.2
222105	Nylon		9.9	12.2	.4	.7
222104	Polyester		*21.0	9.0	[4]406.3	[4]65.2
220127	Other broad woven fabrics		235.5	39.7		
224111	Narrow fabrics (less than 12-inch width)		35.6	4.8	(5)	(5)
229503	Plastic coated, impregnated, or laminated fabrics	Mil. lin. yd.	15.4	5.6	18.0	3.5
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes		(X)	4.6	(X)	(5)
970099	All other materials and components, parts, containers, and supplies		(X)	24.7	(NA)	[3]44.5
971000	Materials, containers, and supplies, n.s.k.[2]		(X)	38.6	(X)	19.2
	INDUSTRY 2394, CANVAS AND RELATED PRODUCTS					
	Materials, containers, and supplies, etc		(X)	226.5	(X)	134.0
	Broad woven fabrics:					
221101	Cotton	Mil. lin. yd.	*38.3	32.7	50.6	30.6
222101	Rayon and acetate		**24.4	23.5	5.5	4.8
222105	Nylon					
222104	Polyester		11.5	7.6	3.2	3.6
220127	Other broad woven fabrics	Mil. lin. yd.	(S)	7.3		
229503	Plastic coated, impregnated, or laminated fabrics	Mil. lin. yd.	(S)	25.1	30.3	19.8
970099	All other materials and components, parts, containers, and supplies		(X)	53.6	(X)	34.7
971000	Materials, containers, and supplies, n.s.k.[2]		(X)	76.7	(X)	40.6
	INDUSTRY 2396, AUTOMOTIVE AND APPAREL TRIMMINGS					
	Materials, containers, supplies, etc		(X)	1,131.8	(X)	595.5
229521	Vinyl coated fabrics, with cotton backing	Mil. lin. yd.	60.6	203.0	66.8	128.3
229502	Other coated fabrics		(D)	(D)	(D)	(D)
	Uncoated broad woven fabrics (piece goods):					
221103	Cotton		(S)	36.5	[6]151.0	62.9
222102	Rayon and acetate		16.7	6.2	[7]63.5	25.9
222104	Polyester		54.2	57.6	[7]152.2	49.4
220128	Other broad woven fabrics		(D)	(D)		
224111	Narrow fabrics (less than 12" width)	Mil. lin. yd.	98.4	17.4	(X)	(X)
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	Mil. lb.	8.0	22.6	(X)	(X)
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes		(X)	22.6	(X)	(X)
970099	All other materials and components, parts, containers, and supplies		(X)	461.0	(X)	195.9
971000	Materials, containers, supplies, n.s.k.[2]		(X)	114.2	(X)	53.4

See footnotes at end of table.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2399, FABRICATED TEXTILE PRODUCTS, N.E.C.					
	Materials, containers, and supplies	.....	(X)	578.4	(X)	369.6
	Broad woven fabrics:					
221101	Cotton	Mil. lin. yd...	73.8	31.7	114.6	38.1
222101	Rayon and acetate		(D)	(D)	9.0	4.4
222105	Nylon		**56.7	51.1	51.5	29.6
222104	Polyester		**11.5	9.7	10.8	11.2
220127	Other broad woven fabrics		(D)	(D)		
224111	Narrow fabrics (less than 12 in. width)		105.8	21.5	(X)	([8])
229503	Plastic coated, impregnated, or laminated fabric	Mil. lin. yd...	(S)	9.5	27.3	11.3
282014	Manmade fibers (staple and tow)	Mil. lb.....	6.3	6.5	28.0	15.1
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	.....	(X)	8.2	(X)	167.4
970099	All other materials and components, parts, containers, and supplies	.....	(X)	197.0		
971000	Materials, containers, and supplies, n.s.k.[2]	.....	(X)	145.5	(X)	[8]92.5

(D) Withheld to avoid disclosing operations of individual companies. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind.
(S) Withheld because the estimate did not meet publication standards. (X) Not collected.

[1]For some establishments data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals on exceeds 10 percent of published quantity figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]Total cost of materials of establishments that did not report detailed material data, including establishments that were not mailed a form.
[3]For 1972, material code 307903 was included with material code 970099.
[4]For 1972, material code 222104 was included with material code 220127.
[5]For 1972, material codes 224111 and 307903 were included with material code 970099.
[6]30 to 50 percent of quantity was estimated.
[7]10 to 30 percent of quantity was estimated.
[8]For 1972, material code 224111 was included with material code 970099.

Logging Camps, Sawmills, and Planing Mills

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DESCRIPTION OF INDUSTRIES

LOGGING CAMPS, SAWMILLS, AND PLANING MILLS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title	
2411	Logging Camps and Logging Contractors
2421	Sawmills and Planing Mills, General
2426	Hardwood Dimension and Flooring
2429	Special Product Sawmills, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2411, LOGGING CAMPS AND LOGGING CONTRACTORS

This industry comprises establishments primarily engaged in cutting timber and producing rough, round, hewn, or riven primary forest or wood raw materials. Independent contractors engaged in estimating or trucking timber, but who perform no cutting operations, are classified in nonmanufacturing industries. Logging and woods operations conducted in combination with sawmills, pulpmills, or other converting establishments, and not separately reported, are classified in their respective industry groups: Namely, with sawmills in industry group 242; veneer and plywood mills in industry group 243; pulpmills in major group 26; and charcoal and wood distillation plants in industry group 286.

The total value of shipments for establishments classified in the Logging Camps and Logging Contractors industry amounted to $6,230 million in 1977, an increase of 146 percent from 1972. The value of shipments of products classified as primary to the industry was $5,758 million, an increase of 121 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were softwood and hardwood logs, bolts, and timber, for which shipments increased 137 percent. Value added by manufacture, at $2,419 million in 1977, was 108 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 83.3 thousand employees, an increase of 4 percent from 1972. The leading States in employment were Washington, Oregon, California, and Maine, accounting for 48 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 22 percent of total value of shipments.

INDUSTRY 2421, SAWMILLS AND PLANING MILLS, GENERAL

This industry comprises establishments primarily engaged in sawing rough lumber and timber from logs and bolts, or resawing cants and flitches into lumber, including box lumber and softwood cut stock; planing mills combined with sawmills; and separately operated planing mills which are engaged primarily in producing surfaced lumber and standard workings or patterns of lumber. This industry also includes establishments primarily engaged in sawing lath and railroad ties, and in producing tobacco hogshead stock and snow fence lath. Establishments primarily engaged in the manufacture of box shook or boxes are classified in industry group 244; sash, doors, wood molding, window and door frames, and other fabricated millwork in industry 2431; and hardwood dimension and flooring in industry 2426. Logging camps combined with sawmills, when not separately reported, are included in this industry.

The total value of shipments for establishments classified in the Sawmills and Planing Mills, General, industry amounted to $10,867 million in 1977, an increase of 68 percent from 1972.

The value of shipments of products classified as primary to the industry was $10,466 million, an increase of 73 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were softwood lumber, for which shipments increased 77 percent, and wood chips, for which shipments increased 114 percent. Value added by manufacture, at $4,453 million in 1977, was 53 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 175.2 thousand employees, an increase of 5 percent from 1972. The leading States in employment were Oregon, California, Washington, and North Carolina, accounting for 39 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 7 percent of total value of shipments.

INDUSTRY 2426, HARDWOOD DIMENSION AND FLOORING

This industry comprises establishments primarily engaged in the manufacture of hardwood dimension lumber and workings therefrom; and other hardwood dimension, semi-fabricated or ready for assembly; hardwood flooring; and wood frames for household furniture. Establishments primarily engaged in the manufacture of stairwork, molding, and trim are classified in industry 2431, and those manufacturing textile machinery bobbins, picker sticks, and shuttles in industry 3552.

The total value of shipments for establishments classified in the Hardwood Dimension and Flooring industry amounted to $850 million in 1977, an increase of 47 percent from 1972. The value of shipments of products classified as primary to the industry was $808 million, an increase of 41 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The product accounting for a significant portion of this change was hardwood furniture dimension, for which shipments increased 46 percent. Value added by manufacture, at $413 million in 1977, was 52 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 29.1 thousand employees, a decrease of 8 percent from 1972. The leading States in employment were Tennessee, North Carolina, Mississippi, and Arkansas, accounting for approximately 40 percent of the industry's 1977 employment. Data for North Carolina, Mississippi, and Arkansas have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 7 percent of total value of shipments.

INDUSTRY 2429, SPECIAL PRODUCT SAWMILLS, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of excelsior, wood shingles, and cooperage stock; and in sawing special products, not elsewhere classified.

The total value of shipments for establishments classified in the Special Product Sawmills, N.E.C. industry amounted to $253 million in 1977, an increase of 40 percent from 1972. The value of shipments of products classified as primary to the industry was $259 million, an increase of 47 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The product accounting for a significant portion of this change was handsplit shakes, for which shipments increased 104 percent. Value added by manufacture, at $109 million in 1977, was 36 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 7.0 thousand employees, an increase of 9 percent from 1972.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 15 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2411, LOGGING CAMPS AND LOGGING CONTRACTORS																
1977 Census	15 136	15 469	708	83.3	1 009.0	74.5	127.7	840.1	2 418.7	3 826.7	6 230.1	386.5	(NA)	555.8	97	94
1976 ASM	(NA)	(NA)	(NA)	71.5	797.7	65.4	109.9	676.7	2 172.9	2 366.6	4 460.8	307.5	1 851.2	388.9	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	67.2	664.1	62.4	100.2	566.2	1 713.1	2 064.1	3 787.1	378.2	1 711.9	319.4	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	75.5	675.2	70.4	120.6	585.9	1 835.9	1 944.9	3 730.0	277.1	1 405.6	281.5	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	85.9	602.8	80.1	139.4	521.8	1 607.8	1 782.3	3 332.8	154.3	1 290.5	261.8	(NA)	(NA)
1972 Census	13 152	13 238	696	80.0	523.9	74.5	129.6	456.1	1 163.4	1 368.7	2 529.5	157.0	1 164.0	195.7	97	89
1971 ASM	(NA)	(NA)	(NA)	68.3	403.6	64.3	112.7	364.4	857.4	954.6	1 814.1	157.2	872.9	152.5	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	76.1	406.2	71.1	125.3	358.1	893.9	933.8	1 819.2	88.1	809.3	165.1	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	73.8	403.4	68.8	125.8	356.6	854.2	1 015.0	1 859.4	131.3	896.7	180.3	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	69.9	373.3	66.2	122.2	335.2	791.5	935.4	1 688.6	102.9	754.8	155.9	(NA)	(NA)
1967 Census	16 265	16 334	598	70.6	338.8	67.5	125.9	306.8	695.1	780.4	1 476.3	101.5	677.3	102.2	98	91
1966 ASM	(NA)	(NA)	(NA)	72.5	310.3	66.9	126.1	282.7	655.9	699.2	1 361.8	118.6	(NA)	92.9	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	73.7	301.3	67.7	125.4	281.8	619.7	652.2	1 297.8	118.3	(NA)	94.5	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	70.7	297.8	63.4	120.1	265.3	556.5	709.0	1 240.1	76.5	577.0	90.7	(NA)	(NA)
1963 Census	13 522	13 588	557	73.1	281.8	65.8	122.5	254.1	520.5	630.2	1 154.7	95.6	529.3	89.6	99	90
INDUSTRY 2421, SAWMILLS AND PLANING MILLS, GENERAL																
1977 Census	6 802	7 544	1 827	175.2	1 943.0	155.8	315.6	1 622.7	4 452.8	6 499.2	10 866.7	535.8	(NA)	1 420.6	92	93
1976 ASM	(NA)	(NA)	(NA)	169.1	1 687.7	150.7	301.6	1 414.7	3 753.7	5 126.4	8 744.2	456.4	3 635.1	1 257.1	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	159.7	1 427.4	142.3	281.2	1 186.0	2 651.8	3 943.8	6 634.8	434.3	3 467.8	1 032.8	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	186.0	1 499.2	166.3	328.5	1 246.6	3 336.1	4 186.9	7 365.2	547.1	3 210.9	1 029.6	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	173.7	1 400.7	155.7	314.4	1 174.0	3 773.7	4 167.2	7 863.4	374.7	3 096.4	881.2	(NA)	(NA)
1972 Census	7 662	8 071	1 717	166.6	1 274.4	149.5	302.2	1 070.0	2 906.8	3 581.3	6 484.5	307.1	2 945.3	752.0	91	94
1971 ASM	(NA)	(NA)	(NA)	169.7	1 103.2	152.8	301.9	929.9	2 193.6	2 562.3	4 764.6	232.2	2 197.2	670.1	(NA)	(NA)
1970 ASM	(NA)	(NA)	(NA)	173.8	1 032.8	155.1	306.0	868.7	1 762.2	2 224.6	3 967.2	189.1	2 096.3	636.3	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	177.7	1 011.5	160.7	316.6	857.4	2 025.3	2 429.0	4 411.1	210.5	2 068.3	648.8	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	175.8	940.3	159.4	316.2	801.5	1 914.2	2 163.4	4 065.7	173.6	1 916.8	540.4	(NA)	(NA)
1967 Census	10 016	10 271	1 916	180.5	884.6	164.7	322.7	754.8	1 556.4	1 948.4	3 506.4	130.0	1 826.5	516.5	92	95
1966 ASM	(NA)	(NA)	(NA)	195.0	871.5	176.0	346.7	742.9	1 555.7	1 866.3	3 390.8	163.5	(NA)	513.1	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	201.6	876.9	181.5	358.7	736.5	1 458.2	1 872.2	3 351.4	172.8	(NA)	508.5	(NA)	(NA)
1964 ASM	(NA)	(NA)	(NA)	199.0	902.2	177.8	354.2	730.2	1 516.8	1 827.2	3 338.1	152.2	1 806.9	565.0	(NA)	(NA)
1963 Census	11 931	12 189	2 151	207.4	811.6	186.6	364.3	701.7	1 376.1	1 779.3	3 156.3	172.5	1 684.7	558.6	89	95
INDUSTRY 2426, HARDWOOD DIMENSION AND FLOORING[3]																
1977 Census	829	890	345	29.1	225.0	25.8	49.8	177.5	412.9	443.1	850.0	35.3	(NA)	147.4	91	92
1976 ASM	(NA)	(NA)	(NA)	31.3	213.0	28.1	54.7	172.4	354.3	381.9	737.3	22.0	284.1	117.7	(NA)	(NA)
1975 ASM[5]	(NA)	(NA)	(NA)	27.5	172.5	24.3	46.1	137.9	285.8	312.9	601.4	28.4	271.5	104.9	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	29.2	180.7	25.9	50.0	148.8	294.1	351.9	645.3	26.0	243.3	108.2	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	32.5	188.7	29.4	58.3	156.2	325.2	375.4	693.3	29.3	241.3	109.5	(NA)	(NA)
1972 Census	879	933	364	31.5	173.9	28.2	55.9	141.7	272.1	304.4	579.0	16.8	227.4	81.7	91	88
INDUSTRY 2429, SPECIAL PRODUCT SAWMILLS, N.E.C.																
1977 Census	511	566	101	7.0	60.3	6.1	10.4	48.8	109.1	137.6	252.6	13.1	(NA)	30.8	98	92
1976 ASM[5]	(NA)	(NA)	(NA)	7.0	46.0	6.2	9.6	37.0	116.6	152.1	270.5	11.9	(S)	29.6	(NA)	(NA)
1975 ASM[5]	(NA)	(NA)	(NA)	7.0	41.9	6.1	9.2	33.5	103.5	122.6	226.9	9.4	(S)	30.1	(NA)	(NA)
1974 ASM[5]	(NA)	(NA)	(NA)	6.8	47.8	6.1	10.5	39.4	106.4	136.0	241.9	9.5	(S)	24.7	(NA)	(NA)
1973 ASM[6]	(NA)	(NA)	(NA)	6.3	42.9	5.8	10.2	36.3	90.0	115.1	202.2	4.5	(S)	23.4	(NA)	(NA)
1972 Census	397	447	86	6.4	40.0	5.8	9.7	33.7	80.4	98.2	180.8	5.7	(S)	20.4	98	96
1971 ASM[5]	(NA)	(NA)	(NA)	6.4	32.8	5.8	9.7	28.5	68.1	62.8	129.1	9.7	47.5	23.0	(NA)	(NA)
1970 ASM[6]	(NA)	(NA)	(NA)	6.5	30.4	5.8	10.3	26.0	52.8	62.7	117.5	2.9	38.6	22.4	(NA)	(NA)
1969 ASM[6]	(NA)	(NA)	(NA)	6.2	35.3	7.5	12.3	31.2	68.1	72.0	140.0	4.9	(S)	21.3	(NA)	(NA)
1968 ASM[6]	(NA)	(NA)	(NA)	7.1	31.5	6.6	10.9	27.7	61.0	71.4	131.4	4.7	31.7	19.5	(NA)	(NA)
1967 Census	454	525	108	7.1	28.5	6.7	10.9	25.4	50.7	65.9	117.9	2.7	28.0	21.2	98	95
1966 ASM[6]	(NA)	(NA)	(NA)	7.2	26.3	6.4	11.3	22.3	39.9	70.4	109.7	2.8	(NA)	21.3	(NA)	(NA)
1965 ASM	(NA)	(NA)	(NA)	7.2	25.9	6.5	11.3	22.8	44.6	63.6	108.2	1.8	(NA)	18.4	(NA)	(NA)
1964 ASM[6]	(NA)	(NA)	(NA)	7.2	26.0	6.6	11.2	22.6	41.5	55.3	97.2	2.4	30.9	19.2	(NA)	(NA)
1963 Census	476	541	107	7.2	25.2	6.6	11.1	22.4	41.4	52.6	96.0	2.0	28.8	19.1	98	49

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1] In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2] For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3] Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4] Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5] Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6] Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7] Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8] Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9] Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10] Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2411, LOGGING CAMPS AND LOGGING CONTRACTORS											
1977 Census--	12 107	(NA)	89	1 715	6.57	61	77	(NA)	29 022	41	16.93
1976 ASM----	11 156	25 890	91	1 680	6.15	53	70	41	30 390	36	19.77
1975 ASM----	9 882	25 474	92	1 605	5.65	54	72	45	25 492	38	17.09
1974 ASM----	8 943	18 617	93	1 713	4.85	52	70	37	24 316	36	15.22
1973 ASM----	7 017	15 023	93	1 740	3.74	53	71	38	18 717	37	11.53
1972 Census--	6 548	14 550	93	1 739	3.51	54	74	46	14 542	45	8.97
1971 ASM----	5 909	12 780	94	1 752	3.23	52	74	48	12 553	47	7.60
1970 ASM----	5 337	10 634	93	1 762	2.85	51	73	44	11 746	45	7.13
1969 ASM----	5 466	12 150	93	1 828	2.83	54	76	48	11 574	47	6.79
1968 ASM----	5 340	10 798	94	1 845	2.74	55	77	44	11 323	47	6.47
1967 Census--	4 798	9 593	95	1 865	2.43	52	75	45	9 845	48	5.52
1966 ASM----	4 280	(NA)	92	1 884	2.24	51	74	(NA)	9 046	47	5.20
1965 ASM----	4 088	(NA)	91	1 852	2.24	50	73	(NA)	8 408	48	4.94
1964 ASM----	4 212	8 161	89	1 894	2.20	57	81	48	7 871	53	4.63
1963 Census--	3 854	7 240	90	1 861	2.07	54	78	45	7 120	54	4.24
INDUSTRY 2421, SAWMILLS AND PLANING MILLS, GENERAL											
1977 Census--	11 088	(NA)	88	2 026	5.14	59	77	(NA)	25 411	43	14.10
1976 ASM----	9 980	21 496	89	2 001	4.69	58	77	41	22 198	44	12.44
1975 ASM----	8 938	21 714	89	1 976	4.21	59	80	52	16 604	53	9.43
1974 ASM----	8 060	17 262	89	1 975	3.79	56	77	43	17 936	44	10.15
1973 ASM----	8 063	17 826	89	2 019	3.73	52	70	39	21 725	37	12.00
1972 Census--	7 636	17 678	90	2 019	3.54	55	75	46	17 322	44	9.55
1971 ASM----	6 500	12 947	90	1 975	3.08	53	76	46	12 926	50	7.26
1970 ASM----	5 942	12 061	89	1 972	2.83	56	82	52	10 139	58	5.75
1969 ASM----	5 692	11 639	90	1 970	2.70	55	77	46	11 397	49	6.39
1968 ASM----	5 348	10 903	90	1 983	2.53	53	76	47	10 888	49	6.05
1967 Census--	4 900	10 119	91	1 959	2.33	55	80	52	8 622	56	4.82
1966 ASM----	4 469	(NA)	90	1 969	2.14	55	80	(NA)	7 977	56	4.48
1965 ASM----	4 349	(NA)	90	1 976	2.05	55	82	(NA)	7 233	60	4.06
1964 ASM----	4 533	9 079	89	1 992	2.06	54	81	54	7 622	59	4.28
1963 Census--	3 913	8 122	89	1 952	1.92	56	82	53	6 635	58	3.77
INDUSTRY 2126, HARDWOOD DIMENSION AND FLOORING											
1977 Census--	7 737	(NA)	88	1 926	3.56	52	78	(NA)	14 200	54	8.29
1976 ASM----	6 805	9 076	89	1 946	3.15	51	80	38	11 319	60	6.47
1975 ASM----	6 272	9 872	88	1 897	2.99	52	80	45	10 392	60	6.19
1974 ASM----	6 188	8 332	88	1 930	2.97	54	82	37	10 071	61	5.88
1973 ASM----	5 806	7 424	90	1 982	2.67	54	81	34	10 006	58	5.57
1972 Census--	5 520	7 219	89	1 982	2.53	52	82	39	8 638	63	4.85
INDUSTRY 2429, SPECIAL PRODUCT SAWMILLS, N.E.C.											
1977 Census--	8 624	(NA)	87	1 692	4.69	54	78	(NA)	15 608	55	10.49
1976 ASM----	6 571	(S)	88	1 548	3.85	56	73	(S)	16 657	39	12.14
1975 ASM----	5 985	(S)	87	1 508	3.64	54	72	(S)	14 785	40	11.25
1974 ASM----	7 029	(S)	89	1 721	3.75	56	75	(S)	15 647	44	10.13
1973 ASM----	6 809	(S)	92	1 758	3.55	56	78	(S)	14 285	47	8.82
1972 Census--	6 250	(S)	90	1 672	3.47	54	76	(S)	12 562	49	8.28
1971 ASM----	5 125	7 421	90	1 672	2.93	48	74	36	10 640	48	7.02
1970 ASM----	4 676	5 938	89	1 775	2.52	53	79	32	8 123	57	5.12
1969 ASM----	4 304	(S)	91	1 640	2.53	51	76	(S)	8 304	51	5.53
1968 ASM----	4 436	4 464	92	1 651	2.54	54	78	24	8 591	51	5.59
1967 Census--	4 014	3 943	94	1 626	2.33	55	80	23	7 140	56	4.65
1966 ASM----	3 652	(NA)	88	1 765	1.97	64	88	(NA)	5 541	65	3.53
1965 ASM----	3 597	(NA)	90	1 738	2.01	58	82	(NA)	6 194	58	3.94
1964 ASM----	3 611	4 291	91	1 696	2.01	56	83	31	5 763	62	3.70
1963 Census--	3 500	4 000	91	1 681	2.01	54	81	30	5 750	60	3.72

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2411, LOGGING CAMPS AND LOGGING CONTRACTORS													
United States	E2	15 469	708	83.3	1 009.0	74.5	127.7	840.1	2 418.7	3 826.7	6 230.1	386.5	80.0	1 163.4
New England Division:														
Maine	E1	543	36	4.3	53.2	3.8	6.9	43.0	134.1	135.8	268.3	17.8	3.8	52.9
New Hampshire	E2	150	3	0.5	5.3	0.4	0.7	4.0	13.9	28.4	42.2	1.8	0.7	7.4
Vermont	E7	111	1	0.2	2.4	0.2	0.3	2.0	5.8	7.3	13.1	(D)	BB	(D)
Middle Atlantic Division:														
New York	E1	188	6	0.9	11.0	0.7	1.4	7.9	19.0	67.6	88.4	4.6	0.5	4.9
Pennsylvania	E4	256	7	1.0	9.5	0.9	1.4	8.0	25.5	23.2	47.5	3.1	0.7	7.9
East North Central Division:														
Ohio	E5	135	3	0.4	3.8	0.4	0.6	3.4	10.3	9.6	19.9	1.4	0.3	2.8
Indiana	E5	74	2	0.3	2.8	0.2	0.4	2.3	5.4	9.4	14.8	1.2	(NA)	(NA)
Illinois	E6	50	2	0.2	1.8	0.2	0.4	1.6	3.9	4.3	8.1	1.0	(NA)	(NA)
Michigan	E6	440	5	1.0	10.3	0.9	1.5	8.4	23.3	29.9	53.2	4.2	1.2	12.8
Wisconsin	E4	314	11	1.2	10.9	1.1	1.5	9.0	24.3	30.0	54.0	3.4	1.3	15.0
West North Central Division:														
Minnesota	E2	227	8	0.9	10.1	0.7	1.2	7.1	23.4	58.5	81.6	3.9	0.9	9.0
Missouri	E4	82	1	0.2	1.6	0.2	0.2	1.3	3.2	5.2	8.4	(D)	0.2	2.3
South Atlantic Division:														
Maryland	E2	72	4	0.3	2.4	0.3	0.4	2.1	10.1	6.5	16.8	1.1	0.2	2.5
Virginia	E5	613	15	1.6	14.9	1.5	2.2	12.6	37.5	40.5	77.6	5.7	1.8	17.8
West Virginia	E3	177	5	0.7	5.7	0.7	1.0	5.0	10.3	14.4	24.7	(D)	0.8	6.3
North Carolina	E4	840	28	3.4	30.8	3.1	4.6	25.4	67.8	98.3	165.2	9.6	3.1	36.0
South Carolina	E3	904	17	2.5	23.9	2.2	3.5	19.2	60.4	123.4	183.6	(D)	2.5	25.6
Georgia	E5	1 483	17	3.8	36.1	3.5	5.2	29.7	88.6	112.2	199.5	13.1	4.4	45.2
Florida	E4	547	13	1.9	18.8	1.7	2.9	15.8	42.4	59.9	101.2	12.4	2.5	28.7
East South Central Division:														
Kentucky	E4	124	5	0.4	3.5	0.4	0.6	2.8	6.9	10.2	17.1	1.0	BB	(D)
Tennessee	E5	198	4	0.7	5.5	0.6	0.9	4.6	10.1	12.5	22.6	1.1	BB	(D)
Alabama	E5	1 359	31	3.8	34.6	3.4	5.0	28.4	92.4	108.3	200.3	17.7	4.0	43.1
Mississippi	E3	676	14	2.3	22.7	2.0	3.3	18.0	53.6	98.2	152.2	8.6	2.1	25.1
West South Central Division:														
Arkansas	E2	536	15	2.5	27.2	2.3	4.0	22.0	81.8	108.7	189.2	16.0	2.6	36.5
Louisiana	E3	670	14	2.2	22.1	1.9	3.1	17.5	50.8	106.1	156.8	11.3	2.4	33.8
Oklahoma	-	39	2	0.6	7.2	0.5	1.0	4.9	12.5	70.7	83.6	5.2	(NA)	(NA)
Texas	E2	428	14	2.2	23.3	1.9	3.4	18.5	65.6	90.4	155.3	8.1	1.6	22.8
Mountain Division:														
Montana	E3	318	15	1.7	19.2	1.5	2.8	16.7	44.2	74.5	118.2	5.9	1.8	22.9
Idaho	E1	325	39	3.2	47.3	3.0	5.6	40.8	98.6	110.2	211.9	11.6	2.9	39.4
Wyoming	E3	57	1	0.2	2.2	0.2	0.3	1.9	5.3	4.9	10.1	0.7	0.2	3.2
Colorado	E4	59	4	0.3	2.6	0.2	0.4	2.2	4.8	7.6	12.2	0.6	0.3	3.3
New Mexico	E8	34	4	0.3	2.5	0.2	0.4	2.2	5.3	8.1	14.1	(D)	0.3	3.6
Arizona	E1	47	5	0.3	3.1	0.3	0.4	2.7	7.7	8.6	16.2	1.0	0.3	4.7
Pacific Division:														
Washington	-	1 155	106	15.4	227.6	13.4	24.5	192.5	543.8	1 090.9	1 632.0	96.0	FF	(D)
Oregon	E1	1 326	147	14.0	196.9	12.5	22.4	165.0	477.2	749.9	1 220.0	71.0	13.2	214.9
California	E1	672	78	6.1	76.9	5.5	9.6	66.0	187.7	262.4	450.6	25.8	6.1	112.9
Alaska	E2	49	22	1.5	22.5	1.4	2.3	19.8	42.3	19.6	61.5	5.5	EE	(D)
INDUSTRY 2421, SAWMILLS AND PLANING MILLS, GENERAL														
United States	-	7 544	1 827	175.2	1 943.0	155.8	315.6	1 622.7	4 452.8	6 499.2	10 866.7	535.8	166.6	2 906.8
New England Division:														
Maine	-	152	29	2.9	30.0	2.5	5.1	23.8	59.2	90.0	149.3	11.7	EE	(D)
New Hampshire	E2	95	18	1.2	10.9	1.1	2.1	8.7	23.3	31.0	54.2	5.0	0.7	9.2
Vermont	E1	69	14	1.2	9.8	1.0	2.1	7.5	21.4	24.5	45.9	(D)	0.6	8.0
Massachusetts	E2	77	11	0.8	7.2	0.6	1.3	5.3	17.4	15.3	32.7	(D)	0.5	6.3
Connecticut	E4	24	3	0.2	1.7	0.2	0.3	1.3	3.1	4.1	7.1	0.6	(NA)	(NA)
Middle Atlantic Division:														
New York	E2	210	28	2.1	19.3	1.9	3.9	15.5	47.6	48.0	95.2	6.3	1.9	27.9
New Jersey	E2	22	1	0.2	1.3	0.2	0.3	1.2	2.3	5.5	7.8	(D)	(NA)	(NA)
Pennsylvania	E2	433	43	3.6	31.6	3.2	6.4	24.7	76.1	92.2	164.7	11.1	3.2	40.6
East North Central Division:														
Ohio	E2	217	25	1.9	16.0	1.7	3.2	12.5	35.2	42.1	77.2	4.7	1.4	18.5
Indiana	E1	161	23	1.6	14.4	1.4	2.6	10.2	30.0	44.7	74.2	5.6	1.1	16.7
Illinois	E4	86	8	0.7	5.5	0.6	1.2	4.5	12.8	15.7	28.6	(D)	0.7	7.2
Michigan	E1	186	29	2.4	21.2	2.1	4.0	16.7	43.8	45.8	88.4	4.9	2.0	26.1
Wisconsin	E1	193	31	2.4	21.8	2.1	4.2	17.4	47.7	51.2	98.8	7.9	1.5	20.4
West North Central Division:														
Minnesota	E1	104	14	0.9	8.1	0.8	1.6	6.7	17.8	23.3	41.1	(D)	0.9	10.7
Iowa	E3	45	-	0.2	2.1	0.2	0.4	1.8	4.6	4.5	9.1	(D)	0.3	4.8
Missouri	E2	283	19	1.7	13.7	1.5	3.0	11.0	33.0	50.9	82.9	3.4	1.5	17.1
South Dakota	-	21	7	0.7	6.7	0.6	1.1	5.6	11.3	12.3	22.2	(D)	0.3	7.1
Kansas	-	16	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.3
South Atlantic Division:														
Maryland	E3	84	14	0.8	6.7	0.8	1.4	5.4	14.4	18.3	32.7	1.7	CC	(D)
Virginia	E2	516	81	5.8	44.9	5.2	9.6	35.1	111.4	135.7	246.7	16.4	5.2	65.4
West Virginia	E2	207	41	2.2	16.4	2.0	3.9	13.5	37.5	37.7	75.9	(D)	2.5	29.3
North Carolina	E1	630	104	8.5	71.8	7.4	14.2	55.6	167.7	274.3	443.0	49.8	7.7	98.5
South Carolina	-	170	58	4.8	42.1	4.3	9.2	34.4	102.5	156.5	258.2	(D)	FF	(D)
Georgia	-	337	101	8.0	66.7	7.1	14.2	53.3	176.9	297.3	467.7	(D)	6.6	90.3
Florida	E1	89	28	2.2	18.3	1.9	4.2	15.3	48.2	66.5	113.1	(D)	EE	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2421, SAWMILLS AND PLANING MILLS, GENERAL—Con.														
East South Central Division:														
Kentucky	E3	224	24	1.7	12.3	1.6	2.9	10.0	29.8	35.7	65.7	3.1	1.8	21.7
Tennessee	E3	423	49	3.6	26.1	3.2	5.7	20.7	57.3	68.2	125.2	8.3	3.1	56.5
Alabama	–	280	105	8.3	67.3	7.4	14.6	53.6	147.5	248.1	391.1	18.1	7.6	94.7
Mississippi	–	217	81	6.7	58.1	5.9	12.4	47.2	152.6	216.4	364.9	19.1	5.8	67.7
West South Central Division:														
Arkansas	–	288	74	7.4	68.9	6.6	14.3	57.7	163.0	232.3	391.1	20.9	7.4	104.6
Louisiana	–	151	57	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.2	65.7
Oklahoma	–	38	7	0.8	7.6	0.7	1.4	6.3	18.1	33.1	51.3	1.0	1.3	31.0
Texas	E1	161	53	4.3	35.0	3.9	7.9	28.5	78.3	122.4	199.5	10.3	6.7	87.8
Mountain Division:														
Montana	–	92	32	4.4	50.0	4.0	8.5	53.0	136.3	135.3	286.4	(D)	FF	(D)
Idaho	–	114	61	7.5	103.2	6.6	13.6	89.3	219.8	306.8	518.1	23.0	6.7	137.8
Wyoming	–	34	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Colorado	E1	74	12	1.5	11.9	1.4	2.5	10.1	24.6	27.7	52.8	(D)	1.1	11.9
New Mexico	–	33	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Arizona	–	21	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	24.1
Utah	E1	35	7	0.4	3.3	0.4	0.7	2.7	8.8	7.6	16.5	0.9	CC	(D)
Pacific Division:														
Washington	–	255	111	15.8	243.4	14.2	28.8	209.3	499.8	745.7	1 230.5	79.8	FF	(D)
Oregon	–	332	210	25.1	383.0	22.4	45.8	309.5	831.4	1 395.3	2 223.5	93.4	26.8	605.6
California	–	288	154	19.4	284.1	16.9	36.9	245.8	705.2	993.1	1 681.4	38.0	19.8	460.5
Alaska	–	21	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
INDUSTRY 2426, HARDWOOD DIMENSION AND FLOORING														
United States	–	**890**	**345**	**29.1**	**225.0**	**25.8**	**49.8**	**177.5**	**412.9**	**443.1**	**850.0**	**35.3**	**31.5**	**272.1**
New England Division:														
Maine	–	12	5	0.3	2.7	0.3	0.6	2.2	4.1	4.4	8.5	0.3	BB	(D)
Vermont	E1	10	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Massachusetts	–	15	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Connecticut	E2	10	3	0.2	1.4	0.2	0.3	1.1	1.9	2.1	4.0	0.2	0.2	1.2
Middle Atlantic Division:														
New York	E1	49	17	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Pennsylvania	E1	50	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East North Central Division:														
Ohio	E2	18	5	0.4	3.3	0.3	0.7	2.4	5.5	5.2	10.6	0.4	0.7	5.5
Indiana	–	25	10	0.7	5.4	0.6	1.1	4.1	9.5	12.6	22.0	(D)	CC	(D)
Illinois	–	14	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	3.8
Michigan	–	29	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Wisconsin	–	17	8	0.7	4.9	0.6	1.1	4.0	8.8	8.5	16.8	(D)	0.5	3.9
West North Central Division:														
Minnesota	–	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Iowa	–	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri	E1	26	12	0.8	5.5	0.7	1.3	4.3	14.5	9.0	23.4	0.4	0.8	7.1
South Atlantic Division:														
Virginia	–	30	16	1.8	13.3	1.6	3.2	11.0	20.2	33.1	53.3	(D)	1.8	14.2
West Virginia	E1	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	3.8
North Carolina	E1	175	64	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.1	31.6
South Carolina	E2	11	5	0.2	1.1	0.2	0.3	0.9	1.8	2.0	3.8	(D)	0.2	2.3
Georgia	–	14	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	6.0
Florida	–	11	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.1
East South Central Division:														
Kentucky	–	26	15	1.9	16.7	1.7	3.2	12.8	27.1	26.5	55.2	1.2	1.8	20.4
Tennessee	–	65	37	3.8	30.1	3.5	6.7	24.0	66.0	80.0	145.5	(D)	4.5	34.6
Alabama	E2	11	6	0.4	2.6	0.3	0.6	2.1	5.6	4.2	9.7	0.3	CC	(D)
Mississippi	–	37	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
West South Central Division:														
Arkansas	–	40	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Louisiana	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Texas	–	20	8	1.5	11.7	1.3	2.9	8.9	25.9	19.9	44.6	2.2	CC	(D)
Pacific Division:														
Washington	–	14	4	0.4	2.3	0.4	0.5	1.8	3.3	3.2	6.7	(D)	0.3	2.9
Oregon	–	9	4	0.4	2.4	0.4	0.5	2.0	4.0	4.2	8.2	0.1	0.4	2.7
California	E2	83	17	1.2	9.8	1.1	2.0	7.9	17.9	13.7	31.3	1.5	1.0	11.3
INDUSTRY 2429, SPECIAL PRODUCT SAWMILLS, N.E.C.														
United States	E1	**566**	**101**	**7.0**	**60.3**	**6.1**	**10.4**	**48.8**	**109.1**	**137.6**	**252.6**	**13.1**	**5.4**	**80.4**
East North Central Division:														
Wisconsin	–	5	5	0.2	1.8	0.2	0.4	1.6	2.1	2.1	4.9	(D)	0.3	2.7
West North Central Division:														
Missouri	–	20	1	0.2	1.0	0.2	0.2	0.9	1.9	2.9	4.7	0.1	0.2	1.2
South Atlantic Division:														
Virginia	–	8	3	0.2	1.2	0.2	0.3	0.9	2.0	1.8	3.8	(D)	0.2	1.8

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 2429, SPECIAL PRODUCT SAWMILLS, N.E.C.—Con.														
East South Central Division:														
Tennessee	-	14	4	0.3	2.1	0.2	0.4	1.5	(S)	4.8	7.4	(D)	0.2	2.2
Mountain Division:														
Idaho	E3	33	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	E1	302	62	4.0	38.4	3.5	5.7	31.0	76.7	93.2	168.8	(D)	FF	(D)
Oregon	E2	63	6	0.6	4.7	0.5	0.8	3.9	10.4	8.7	18.9	1.0	0.4	5.2
California	E1	20	1	0.2	1.3	0.1	0.2	1.1	3.0	4.7	7.6	0.3	(NA)	(NA)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. **Summary Statistics for the Industry: 1977**

[For explanation of terms, see appendix A]

Item	Unit of measure	Logging camps and logging contractors (SIC 2411)	Sawmills and planing mills, general (SIC 2421)	Hardwood dimension and flooring (SIC 2426)	Special product sawmills, n.e.c. (SIC 2429)
Primary product specialization ratio[1]	percent	97	92	91	98
Coverage ratio[2]	do	94	93	92	92
All establishments	number	15 469	7 544	890	566
With 1 to 19 employees	do	14 761	5 717	545	465
With 20 to 99 employees	do	627	1 423	271	93
With 100 employees or more	do	81	404	74	8
All employees, average for year	1,000	83.3	175.2	29.1	7.0
Payroll for year, all employees	mil. dol.	1 009.0	1 943.0	225.0	60.3
Production workers:					
Average for year	1,000	74.5	155.8	25.8	6.1
March	do	62.6	149.9	25.3	6.2
May	do	73.2	154.9	25.7	6.2
August	do	84.2	159.6	26.0	6.1
November	do	76.3	156.1	26.2	6.1
Hours	millions	127.7	315.6	49.8	10.4
January to March	do	29.5	74.8	12.0	2.3
April to June	do	30.9	80.7	12.6	2.7
July to September	do	35.7	81.1	12.6	2.7
October to December	do	31.7	79.0	12.6	2.7
Wages	mil. dol.	840.1	1 622.7	177.5	48.8
Cost of materials, etc.	do	3 826.7	6 499.2	443.1	137.6
Materials, parts, containers, etc., consumed	do	2 376.3	5 718.5	398.7	125.9
Resales	do	584.8	259.5	21.0	7.1
Fuels consumed	do	82.6	91.1	6.1	1.0
Purchased electric energy	do	7.1	136.0	14.2	1.7
Contract work	do	776.0	294.2	3.0	1.9
Value of shipments, including resales	do	6 230.1	10 866.7	850.0	252.6
Value of resales	do	602.0	243.3	27.5	7.8
Value added by manufacture	do	2 418.7	4 452.8	412.9	109.1
Manufacturers' inventories:					
Beginning of year	do	520.6	1 333.7	125.3	34.2
Finished products	do	398.8	549.6	29.4	22.9
Work in process	do	49.8	368.5	28.7	1.9
Materials, supplies, fuel, etc.	do	72.0	415.6	67.2	9.4
End of year	do	555.8	1 420.6	147.4	30.8
Finished products	do	409.0	603.3	33.4	17.0
Work in process	do	54.8	400.1	30.7	1.9
Materials, supplies, fuel, etc.	do	92.0	417.1	83.4	11.9
Capital expenditures for plant and equipment	do	419.7	587.0	39.4	14.4
New capital expenditures	do	386.5	535.8	35.3	13.1
New buildings and other structures	do	56.3	86.8	9.3	3.9
New machinery and equipment	do	330.2	449.0	26.0	9.2
Used capital expenditures	do	33.3	51.2	4.1	1.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Logging camps and logging contractors (SIC 2411)		Sawmills and planing mills, general (SIC 2421)		Hardwood diminsion and flooring (SIC 2426)		Special product sawmills, n.e.c. (SIC 2429)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	(1.9)	20	(7.3)	27	(1.4)	62	(0.2)	27
Response coverage ratio[2] (percent)	62.4	(X)	59.8	(X)	65.7	(X)	60.9	(X)
Machinery	(74.2)	20	(87.4)	30	(7.4)	74	(2.3)	43
Response coverage ratio[2] (percent)	67.5	(X)	58.9	(X)	69.8	(X)	63.5	(X)
Cost of purchased communication services	2.5	11	(12.0)	56	(1.5)	72	(0.3)	55
Response coverage ratio[2] (percent)	70.6	(X)	62.3	(X)	72.1	(X)	67.5	(X)
Rental payments	70.2	11	42.5	8	(4.2)	17	(1.0)	28
Buildings and other structures	(6.0)	52	(15.9)	16	(2.2)	21	(0.3)	65
Machinery and equipment	64.2	8	26.6	7	(2.0)	23	(0.7)	24
Supplemental labor costs	198.9	3	395.5	1	36.4	3	9.6	8
Legal costs	117.5	4	205.5	2	21.3	4	7.0	14
Voluntary costs	81.4	3	190.0	1	15.1	6	(2.6)	15
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	179.6	5	753.0	3	96.2	7	(18.7)	27
New capital expenditures	36.9	11	77.5	6	(9.9)	19	(3.5)	33
Used capital expenditures	(S)	(A)	7.6	9	(1.6)	42	-	(X)
Retirements	12.8	10	45.5	8	(7.0)	48	(1.4)	28
End of year	204.0	5	792.7	3	100.7	7	(20.9)	24
Machinery and equipment:								
Beginning of year	1,906.8	1	3,112.6	1	185.5	5	(50.9)	19
New capital expenditures	399.6	3	493.7	4	30.4	12	(7.7)	27
Automobiles, trucks, etc., for highway use[3]	(38.9)	51	(25.7)	78	(1.7)	(A)	(0.2)	(A)
Computers and peripheral data processing equipment[3]	(.3)	(A)	(1.7)	(A)	(1.1)	(A)	(Z)	(A)
All other[3]	180.0	11	308.5	6	(17.7)	(A)	(2.6)	(A)
New machinery and equipment, n.s.k.[4]	180.5	11	157.8	12	(10.0)	(A)	(4.8)	(A)
Used capital expenditures	(48.0)	15	49.3	8	(3.4)	25	(0.2)	21
Retirements	136.8	8	223.1	9	(16.0)	29	(5.0)	25
End of year	2,217.7	1	3,432.4	1	203.4	5	(53.8)	17
Total gross value of depreciable assets:								
Beginning of year	2,086.0	1	3,865.4	1	281.8	5	(69.6)	20
New capital expenditures	436.5	3	571.1	4	40.3	13	(11.2)	27
Used capital expenditures	(48.3)	15	56.9	7	(5.0)	24	(0.2)	21
Retirements	149.6	8	268.6	7	(23.1)	34	(6.3)	23
End of year	2,421.3	1	4,224.8	1	304.1	5	(74.7)	18
Depreciation charges during 1977	259.2	4	406.8	2	22.7	5	(7.8)	19
Buildings and other structures	19.8	7	(57.6)	21	4.4	8	(1.2)	32
Machinery and equipment	239.4	4	349.2	2	18.3	6	(6.6)	17

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2411, LOGGING CAMPS AND LOGGING CONTRACTORS												
Total	**E2**	**15 469**	**83.3**	**1 009.0**	**74.5**	**127.7**	**840.1**	**2 418.7**	**3 826.7**	**6 230.1**	**386.5**	**555.8**
Establishments with an average of—												
1 to 4 employees	E7	12 008	13.5	162.3	13.5	22.9	137.4	442.3	554.7	997.1	65.7	77.2
5 to 9 employees	E3	1 619	10.8	114.0	9.8	15.5	96.2	271.5	351.4	621.7	36.4	50.9
10 to 19 employees	E2	1 134	15.1	151.1	13.5	20.5	127.8	350.9	382.4	725.0	53.4	59.4
20 to 49 employees	E1	518	15.1	168.7	13.4	23.1	141.8	387.1	345.6	727.1	58.2	58.7
50 to 99 employees	E1	109	7.4	91.1	6.3	11.6	74.9	219.0	328.7	542.9	29.3	50.3
100 to 249 employees	-	55	8.3	116.5	6.9	12.8	93.7	225.8	525.3	754.6	(143.5)	57.3
250 to 499 employees	-	16	5.6	79.1	4.7	8.8	61.2	173.9	427.2	596.8	(D)	60.7
500 to 999 employees	-	9	(7.6)	(126.3)	(6.5)	(12.6)	(107.0)	(348.1)	(911.4)	(1 265.0)	(D)	(141.5)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	10 305	12.1	144.9	12.0	20.6	122.9	366.2	465.9	832.0	57.0	63.9
INDUSTRY 2421, SAWMILLS AND PLANING MILLS, GENERAL												
Total	**-**	**7 544**	**175.2**	**1 943.0**	**155.8**	**315.6**	**1 622.7**	**4 452.8**	**6 499.2**	**10 866.7**	**535.8**	**1 420.6**
Establishments with an average of—												
1 to 4 employees	E8	3 698	6.1	46.5	6.1	10.5	37.5	100.9	140.6	244.6	17.0	26.9
5 to 9 employees	E4	1 056	6.8	55.3	6.4	11.9	44.8	136.7	173.9	309.8	19.2	31.1
10 to 19 employees	E1	963	13.2	107.4	11.6	22.0	85.2	282.5	325.3	604.7	34.0	65.5
20 to 49 employees	-	917	28.8	246.2	25.1	47.7	195.9	654.2	797.8	1 440.7	76.1	172.1
50 to 99 employees	-	506	35.6	376.3	31.4	64.1	311.2	934.5	1 323.4	2 232.6	104.3	327.2
100 to 249 employees	-	322	47.4	584.2	42.2	88.2	499.5	1 336.7	2 110.6	3 410.0	143.3	475.3
250 to 499 employees	-	62	21.0	286.1	18.7	40.1	243.7	568.7	928.6	1 496.3	72.1	182.0
500 to 999 employees	-	15	10.8	154.1	9.4	20.4	130.1	288.3	501.5	783.5	48.6	84.9
1,000 to 2,499 employees	-	5	5.6	86.9	5.0	10.7	74.8	150.4	197.5	344.5	21.4	45.6
Covered by administrative records[2]	E0	3 900	9.4	71.1	9.3	16.2	57.2	148.7	213.9	362.6	24.5	40.6
INDUSTRY 2426, HARDWOOD DIMENSION AND FLOORING												
Total	**-**	**890**	**29.1**	**225.0**	**25.8**	**49.8**	**177.5**	**412.9**	**443.1**	**850.0**	**35.3**	**147.4**
Establishments with an average of—												
1 to 4 employees	E7	269	0.5	3.6	0.5	0.8	2.9	7.5	7.4	15.1	2.6	2.2
5 to 9 employees	E4	119	0.8	6.3	0.7	1.4	5.0	11.2	10.3	21.5	0.8	2.7
10 to 19 employees	E1	157	2.2	16.0	2.0	3.6	12.8	27.5	29.0	56.2	2.1	7.2
20 to 49 employees	E1	189	5.9	44.3	5.2	9.8	34.4	76.6	86.8	162.6	8.5	22.7
50 to 99 employees	-	82	5.8	44.3	5.2	10.0	34.3	79.5	88.4	167.4	4.8	28.9
100 to 249 employees	-	64	9.7	77.7	8.7	17.0	62.1	144.7	162.0	304.7	11.9	61.3
250 to 499 employees	-	10	(4.1)	(32.8)	(3.6)	(7.2)	(26.0)	(65.9)	(59.4)	(122.5)	(4.7)	(22.4)
Covered by administrative records[2]	E0	267	0.8	6.0	0.8	1.4	4.8	10.6	10.7	21.3	0.8	3.3
INDUSTRY 2429, SPECIAL PRODUCT SAWMILLS, N.E.C.												
Total	**E1**	**566**	**7.0**	**60.3**	**6.1**	**10.4**	**48.8**	**109.1**	**137.6**	**252.6**	**13.1**	**30.8**
Establishments with an average of—												
1 to 4 employees	E6	263	0.4	3.3	0.4	0.7	2.8	6.6	6.0	13.4	0.9	1.7
5 to 9 employees	E3	96	0.6	5.3	0.5	0.9	4.3	11.1	13.8	24.7	1.3	2.9
10 to 19 employees	E1	106	1.5	12.2	1.3	2.2	9.8	23.7	25.7	50.8	2.2	6.3
20 to 49 employees	E1	76	2.2	19.7	1.9	3.3	15.8	35.9	48.7	85.3	3.2	10.6
50 to 99 employees	-	17	1.2	11.3	1.0	1.7	9.5	20.1	26.0	45.8	2.5	3.3
100 to 249 employees	-	8	1.1	8.5	0.9	1.6	6.7	11.7	17.3	32.5	3.0	6.1
Covered by administrative records[2]	E0	239	0.8	5.5	0.7	1.2	4.6	11.1	8.4	19.5	1.7	2.9

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2411	**Logging camps and logging contractors:**										
	Entire industry	15 469	83.3	1 009.0	74.5	127.7	840.1	2 418.7	3 826.7	6 230.1	386.5
	Establishments with 75 percent specialization or more	15 116	79.2	959.2	70.9	121.5	801.4	2 316.1	3 556.8	5 862.8	365.9
24111	Softwood logs, bolts, and timber:										
	Establishments with this product class primary	590	23.7	336.4	20.2	35.8	271.8	843.8	2 147.1	2 990.7	140.6
	Establishments with 75 percent specialization or more in class	453	19.4	285.4	16.5	30.6	231.9	733.2	1 851.3	2 590.1	116.3
24112	Hardwood logs, bolts, and timber:										
	Establishments with this product class primary	244	3.9	31.2	3.4	4.8	25.9	69.4	79.4	148.0	6.9
	Establishments with 75 percent specialization or more in class	161	2.7	20.7	2.3	3.1	17.8	49.3	52.4	101.0	4.4
24113	Pulpwood:										
	Establishments with this product class primary	363	5.5	60.7	4.5	7.3	46.6	136.2	250.5	385.3	17.6
	Establishments with 75 percent specialization or more in class	272	3.8	40.4	3.3	5.1	32.3	101.6	132.9	231.8	11.3
24114	Other roundwood products:										
	Establishments with this product class primary	73	1.2	10.7	1.0	1.6	7.9	22.5	25.1	47.1	9.9
	Establishments with 75 percent specialization or more in class	61	1.0	9.1	0.8	1.3	6.9	20.4	19.8	39.7	9.7
24119	Receipts for contract logging:										
	Establishments with this product class primary	1 236	19.4	240.2	17.3	30.0	207.5	492.9	290.5	776.0	69.2
	Establishments with 75 percent specialization or more in class	1 193	18.7	231.0	16.7	28.9	199.7	470.5	277.2	740.9	65.2
2421	**Sawmills and planing mills, general:**										
	Entire industry	7 544	175.2	1 943.0	155.8	315.6	1 622.7	4 452.8	6 499.2	10 866.7	535.8
	Establishments with 75 percent specialization or more	7 196	154.4	1 697.6	137.4	277.6	1 416.9	3 815.7	5 815.3	9 560.3	485.8
24211	Hardwood lumber, rough and dressed, except siding:										
	Establishments with this product class primary	870	25.9	219.1	22.4	44.3	173.9	479.9	569.4	1 041.8	50.1
	Establishments with 75 percent specialization or more in class	569	16.1	138.0	13.9	27.3	108.6	308.6	369.8	672.3	33.5
24212	Softwood lumber, rough and dressed, except siding:										
	Establishments with this product class primary	1 166	108.5	1 393.0	96.3	201.5	1 182.1	3 217.5	4 945.7	8 089.3	341.0
	Establishments with 75 percent specialization or more in class	873	80.1	1 046.3	71.2	148.7	892.2	2 329.7	3 850.7	6 131.7	259.7
24215	Wood chips:										
	Establishments with this product class primary	106	3.2	33.3	2.6	5.3	25.2	78.6	175.5	255.0	37.8
	Establishments with 75 percent specialization or more in class	74	1.8	19.5	1.4	2.7	14.1	47.9	139.5	187.9	34.6
24217	Softwood cut stock:										
	Establishments with this product class primary	71	3.9	37.5	3.5	7.2	31.6	59.4	121.1	178.6	8.5
	Establishments with 75 percent specialization or more in class	54	2.3	20.4	2.0	3.8	17.0	36.4	76.6	111.6	2.6
24218	Softwood flooring, siding, and other mill products:										
	Establishments with this product class primary	130	2.4	19.4	2.1	3.9	16.1	41.7	57.9	98.8	6.1
	Establishments with 75 percent specialization or more in class	80	1.4	11.1	1.2	2.2	9.0	26.9	36.3	62.5	2.6
24219	Contract/custom sawing of logs owned by others:										
	Establishments with this product class primary	127	2.1	19.3	1.8	3.4	15.4	44.1	16.5	60.6	3.0
	Establishments with 75 percent specialization or more in class	113	1.8	16.9	1.6	3.1	13.5	39.7	13.7	53.2	2.6
2426	**Hardwood dimension and flooring:**										
	Entire industry	890	29.1	225.0	25.8	49.8	177.5	412.9	443.1	850.0	35.3
	Establishments with 75 percent specialization or more	813	25.2	193.9	22.4	43.0	153.0	351.4	374.3	719.6	28.3
24261	Hardwood flooring:										
	Establishments with this product class primary	41	5.2	41.2	4.7	9.8	33.2	92.6	90.6	181.1	7.2
	Establishments with 75 percent specialization or more in class	33	4.3	34.5	3.9	8.1	27.6	80.1	76.8	155.1	6.0
24262	Hardwood dimension, furniture parts, and vehicle stock:										
	Establishments with this product class primary	269	15.6	122.0	13.7	26.0	95.0	219.9	258.2	474.8	18.2
	Establishments with 75 percent specialization or more in class	229	12.2	95.2	10.7	20.1	74.0	165.2	198.6	360.3	14.3
24266	Wood frames for household furniture:										
	Establishments with this product class primary	131	4.6	34.8	4.0	7.6	27.3	53.4	49.8	102.8	3.1
	Establishments with 75 percent specialization or more in class	119	4.1	31.2	3.6	6.7	24.6	46.8	41.5	87.8	(D)
2429	**Special product sawmills, n.e.c.:**										
	Entire industry	566	7.0	60.3	6.1	10.4	48.8	109.1	137.6	252.6	13.1
	Establishments with 75 percent specialization or more	540	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2411	Logging camps and logging contractors.....1977..	6,230.1	5,387.1	192.7	650.4	97	5,757.5	5,387.1	370.4	94
	1972..	2,529.5	2,327.8	78.6	123.1	97	2,601.4	2,327.8	273.6	89
	1967..	1,476.3	1,381.9	12.1	82.3	99	1,515.2	1,381.9	133.3	91
2421	Sawmills and planing mills, general.....1977..	10,866.7	9,707.2	787.4	372.1	92	10,465.7	9,707.2	758.5	93
	1972..	6,484.5	5,720.1	571.7	192.6	91	6,063.3	5,720.1	343.2	94
	1967..	3,506.4	3,116.9	254.6	134.9	92	3,288.0	3,116.9	171.1	95
2426	Hardwood dimension and flooring.....1977..	850.0	740.9	77.3	31.8	91	807.5	740.9	66.6	92
	1972..	579.0	505.6	52.2	21.2	91	571.5	505.6	65.9	88
	1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2429	Special product sawmills, n.e.c.....1977..	252.6	238.2	5.2	9.2	98	258.7	238.2	20.5	92
	1972..	180.8	169.1	3.3	8.4	98	175.7	169.1	6.6	96
	1967..	117.9	109.6	2.6	6.0	98	115.6	109.6	6.0	95

(NA) Not available. n.e.c. Not elsewhere classified.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Logging camps and logging contractors (SIC 2411)	Sawmills and planing mills, general (SIC 2421)	Hardwood dimension and flooring (SIC 2426)	Special product sawmills, n.e.c. (SIC 2429)	Other industries
	Total	(X)	6,230.1	10,866.7	850.0	252.6	(X)
	Primary products	(X)	5,387.1	9,707.2	740.9	238.2	(X)
	Secondary products	(X)	192.7	787.4	77.3	5.2	(X)
	Miscellaneous receipts	(X)	650.4	372.1	31.8	9.2	(X)
2411-	Logging products and contract logging	5,757.5	5,387.1	285.7	4.3	1.1	79.3
24111	Softwood logs, bolts, and timber	2,580.7	2,308.3	211.6	(D)	(D)	59.7
24112	Hardwood logs, bolts, and timber	241.8	193.7	35.8	(D)	(D)	8.6
24113	Pulpwood	383.2	363.6	16.4	-	-	3.2
24114	Other roundwood products	71.3	62.0	7.8	(D)	(D)	1.5
24119	Receipts for contract logging	757.5	748.4	8.4	(D)	-	(D)
24110	Logging products and contract logging, n.s.k	1,722.9	1,711.0	5.7	-	(D)	(D)
2421-	Sawmill and planing mill products	10,465.7	171.4	9,707.2	38.5	3.9	544.7
24211	Hardwood lumber, rough and dressed, except siding	972.9	(D)	886.8	26.0	(D)	50.8
24212	Softwood lumber, rough and dressed, except siding	6,899.7	22.8	6,624.8	(D)	(D)	247.8
24215	Wood chips	1,079.5	135.8	760.6	(D)	(D)	176.6
24217	Softwood cut stock	229.5	.1	187.5	(D)	(D)	39.8
24218	Softwood flooring, siding, and other mill products	125.2	(D)	118.7	(D)	(D)	3.9
24219	Contract/custom sawing of logs owned by others	90.7	(D)	64.6	(D)	-	(D)
24210	Sawmill and planing mill products, n.s.k	1,068.2	(D)	1,064.2	(D)	-	(D)
2426-	Hardwood dimension and flooring	807.5	2.7	31.7	740.9	-	32.1
24261	Hardwood flooring	159.6	(D)	(D)	147.6	-	(D)
24262	Hardwood dimension, furniture parts, and vehicle stock	451.1	(D)	(D)	408.7	-	16.9
24266	Wood frames for household furniture	104.1	(D)	(D)	95.2	-	(D)
24260	Hardwood dimension and flooring, n.s.k	92.6	(D)	(D)	89.5	-	2.1
24290	Shingles, shakes, cooperage stock, and excelsior	258.7	(D)	17.9	-	238.2	(D)
	Other product shipments by 4-digit product group:						
2431-	Millwork	(X)	(D)	(D)	7.9	-	(X)
2434-	Wood kitchen cabinets	(X)	-	(D)	(D)	-	(X)
2435-	Hardwood veneer and plywood	(X)	-	(D)	(D)	-	(X)
2436-	Softwood veneer and plywood	(X)	(D)	(D)	(D)	-	(X)
2439-	Structural wood members, n.e.c	(X)	(D)	22.0	-	-	(X)
2441-	Nailed wood boxes and shook	(X)	(D)	(D)	(D)	-	(X)
2448-	Wood pallets and skids	(X)	(D)	(D)	(D)	-	(X)
2491-	Wood preserving	(X)	.8	(D)	(D)	(D)	(X)
2492-	Particleboard	(X)	-	(D)	(D)	(D)	(X)
2499-	Wood products, n.e.c	(X)	.2	(D)	(D)	(D)	(X)
2511-	Wood household furniture	(X)	-	(D)	(D)	-	(X)
3499-	Fabricated metal products, n.e.c	(X)	-	(D)	(D)	-	(X)
	Miscellaneous receipts:						
93000 00	Contract work	(X)	23.4	9.4	1.4	(D)	(X)
99980 15	Bark	(X)	.7	17.1	.3	(D)	(X)
99980 17	Sales of mill residues other than bark (including sawdust, shavings, slabs, cores, fuelwood, chipper rejects, cull pieces, etc.)	(X)	7.8	80.6	(D)	(D)	(X)
99980 98	Other miscellaneous receipts including receipts for repair work, etc	(X)	10.3	16.4	.9	.8	(X)
99980 00	Other miscellaneous receipts, n.s.k	(X)	6.1	5.3	(D)	(D)	(X)
99989 00	Resales	(X)	602.0	243.3	27.5	7.8	(X)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2411-	2435 Hardwood veneer and plywood	7.8
	2436 Softwood veneer and plywood	(D)
	2611 Pulp mills	16.2
2421-	2431 Millwork	(D)
	2435 Hardwood veneer and plywood	(D)
	2436 Softwood veneer and plywood	(D)
	2448 Wood pallets and skids	30.7

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products--Con.	
2421-	2491 Wood preserving	(D)
	2499 Wood products, n.e.c	14.3
	2611 Pulp mills	(D)
	2631 Paperboard mills	(D)
2426-	2499 Wood products, n.e.c	5.2
	2511 Wood household furniture	7.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	LOGGING CAMPS AND LOGGING CONTRACTORS						
2411- --	Total	.....	(NA)	(X)	5,757.5	(X)	2,601.4
24111 --	Softwood logs, bolts, and timber	Million feet.. (log scale)	(NA)	(X)	2,580.7		
24111 11	Southern yellow pine		108	2,387.3	379.4		
24111 13	Ponderosa pine		48	1,147.7	151.8		
24111 15	Spruce		50	613.8	90.8		
24111 17	Douglas fir		141	4,535.7	931.3		
24111 19	Port Orford cedar		12	28.6	14.5		
24111 21	Hemlock		73	2,406.7	516.8		
24111 23	Western red cedar		47	520.5	130.5		
24111 25	Other softwood log species, n.e.c.		86	1,346.7	231.7	13,729.2	1,090.9
24111 00	Softwood logs, bolts, and timber, n.s.k.		(NA)	(X)	133.9		
24112 --	Hardwood logs, bolts, and timber		(NA)	(X)	241.8		
24112 11	Birch		21	**51.7	9.0		
24112 13	Maple		32	(S)	19.7		
24112 15	Walnut		10	**11.7	4.4		
24112 17	Oak		76	418.6	58.8		
24112 21	Other hardwood log species, n.e.c.		(NA)	(S)	70.2		
24112 00	Hardwood logs, bolts, and timber, n.s.k.	Million feet.. (log scale)	(NA)	(X)	79.6		
24113 --	Pulpwood:						
24113 11	Pulpwood (scaled in cords)	1,000 std. cd. (128 cu. ft.)	389	6,319.5	383.2	5,804.4	126.4
24114 --	Other roundwood products	.....	(NA)	(X)	71.3	(X)	32.0
	Wood poles, piles, and posts, untreated:						
24114 11	Not over 15 feet in length	.....	15	(X)	8.2		
24114 13	15 feet and over in length	.....	32	(X)	32.7		
24114 29	Other roundwood products and wood in the rough, n.e.c. (including brierwood, stumps, sticks, and burls)	.....	9	(X)	14.4	(X)	32.0
24114 00	Other roundwood products, n.s.k.	.....	(NA)	(X)	16.0		
24119 --	Receipts for contract logging:						
24119 11	Receipts for contract logging of timber owned by others	.....	1,164	(X)	757.5	(X)	404.2
24110 00	Logs, bolts, pulpwood, etc., n.s.k., typically for companies with 5 employees or more (see note)	.....	(NA)	(X)	890.9	(X)	230.6
24110 02	Logs, bolts, pulpwood, etc., n.s.k., typically for companies with less than 5 employees (see note)	.....	(NA)	(X)	832.0	(X)	717.3
	SAWMILLS AND PLANING MILLS, GENERAL						
2421- --	Total	.....	(NA)	(X)	10,465.7	(X)	6,063.3
24211 --	Hardwood lumber, rough and dressed, except siding	.....	(NA)	(X)	972.9	(X)	[3] [4]491.9
24211 71	Hardwood rough lumber	Mil. bd. ft...	507	3,420.9	645.2	[3]2,902.8	[3]379.0
24211 73	Hardwood dressed lumber, including ceiling, framing, and shiplapped lumber	Mil. bd. ft...	104	541.0	104.2	[3]839.8	[3]92.9
24211 00	Hardwood lumber, rough and dressed, n.s.k.	.....	(NA)	(X)	223.5	(X)	[3]20.0
24212 --	Softwood lumber, rough and dressed, except siding	.....	(NA)	(X)	6,899.7	(X)	[3]3,907.8
	Softwood rough lumber:						
24212 12	Boards--lumber less than 2 inches in nominal thickness	Mil. bd. ft...	266	2,830.6	639.2	[3]1,688.2	[3]214.0
24212 13	2-inch lumber--2-inch nominal thickness only		254	5,041.1	926.7	2,923.6	326.8
24212 15	Lumber and timbers--over 2 inches in nominal thickness		174	2,067.0	476.6	1,357.5	155.8
	Softwood dressed lumber, including ceiling, framing, matched, and shiplapped lumber:						
24212 22	Boards--lumber less than 2 inches in nominal thickness		112	5,734.5	1,347.1	[3]7,613.8	[3]1,042.7
24212 23	2-inch lumber--2-inch nominal thickness only		374	14,252.8	2,825.4	15,375.2	1,845.0
24212 25	Lumber and timbers--over 2 inches in nominal thickness	Mil. bd. ft...	171	1,884.5	421.0	1,688.6	230.0
24212 00	Softwood lumber, rough and dressed, n.s.k.	.....	(NA)	(X)	263.7	(X)	[3]93.5
24215 --	Wood chips	.....	(NA)	(X)	1,079.5	(X)	505.4
24215 77	Short tons	1,000 s. tons.	325	41,824.3	600.5	26,450.8	282.4
24215 78	Standard units (one standard unit--200 feet of gravity packed chips--one standard cord)	1,000 cords (128 cu. ft.)	309	14,301.9	422.6	12,674.3	218.5
24215 00	Wood chips, n.s.k.	.....	(NA)	(X)	56.4	(X)	4.5
24217 --	Softwood cut stock	.....	(NA)	(X)	229.5	(X)	155.9
24217 11	Furniture cut stock	Mil. bd. ft...	35	114.5	59.8	(S)	30.3
24217 51	Other industrial cut stock	Mil. bd. ft...	58	295.8	152.3	532.3	123.6
24217 00	Softwood cut stock, n.s.k.	.....	(NA)	(X)	17.4	(X)	2.0

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	SAWMILLS AND PLANING MILLS, GENERAL--Con.						
24218 --	Softwood flooring, siding, and other general sawmill and planing mill products	.....	(NA)	(X)	125.2	(X)	[3] [4]157.2
24218 11	Softwood flooring	Mil. bd. ft...	9	33.7	13.0	172.2	25.5
24218 13	Woodsiding (weatherboards or clapboards), including drilled or treated	Mil. bd. ft...	10	30.4	15.1	(3)	(3)
24218 17	Railway crossties and mine ties	1,000 ties....	68	5,782.0	36.9	[4]7,551.3	[4]24.1
24218 23	Wood lath	.....	10	(X)	5.5		
24218 25	Wood fence pickets, palings, and rails unassembled into fence sections	.....	16	(X)	15.4	(X)	68.3
24218 97	Other sawmill products, including tobacco hogshead stock	.....	10	(X)	5.0		
24218 98	Other planing mill products	.....	21	(X)	19.1	(X)	36.8
24218 00	Softwood flooring, siding, and other general sawmill and planing mill products, n.s.k.	.....	(NA)	(X)	15.2	(X)	2.5
24219 --	Contract or custom work (sawing, kiln-drying, planing, resawing, etc.) on logs or lumber owned by others	.....	(NA)	(X)	90.7	(X)	40.9
24219 11	Receipts for contract or custom sawing of logs owned by others	Mil. bd. ft...	32	548.3	39.0	596.3	21.4
24219 51	Receipts for contract kiln-drying, planing, resawing, or other manufacturing of lumber owned by others	Mil. bd. ft...	64	1,121.5	37.2	996.0	18.5
24219 00	Contract or custom work on logs or lumber owned by others, n.s.k.	.....	(NA)	(X)	14.5	(X)	1.0
24210 00	Sawmills and planing mills, general, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	705.6	(X)	446.6
24210 02	Sawmills and planing mills, general, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	362.6	(X)	357.6
	HARDWOOD DIMENSION AND FLOORING						
2426- --	Total	.....	(NA)	(X)	807.5	(X)	571.5
24261 --	Hardwood flooring	.....	(NA)	(X)	159.6	(X)	118.6
24261 11	Oak flooring (3/4", 1/2", 3/8" T & G and EM and 5/16" square edge strip)	Mil. bd. ft...	21	94.2	43.2	250.3	49.0
24261 19	Oak specialty flooring, including block, parquetry, plank, oak faced and/or backed plywood blocks, and other oak specialty flooring		10	(S)	51.9	61.7	18.9
24261 31	Maple, including strip, block, parquetry		9	**22.7	13.9	27.2	7.0
24261 41	Glued laminated truck trailer flooring and railroad car decking		10	(S)	41.7	[5]38.4	31.2
24261 98	Other hardwoods	Mil. bd. ft...	5	*10.6	4.7	(S)	7.1
24261 00	Hardwood flooring, n.s.k.	.....	(NA)	(X)	4.2	(X)	5.4
24262 --	Hardwood dimension stock, furniture parts, and vehicle stock	.....	(NA)	(X)	451.1	(X)	304.6
	Hardwood furniture dimension, including glued laminates, excluding dimension made from plywood:						
24262 23	Kiln dried, rough or surfaced	Mil. bd. ft. lumber cons.	86	**214.8	131.1	240.1	91.7
24262 25	Air dried, rough or surfaced		17	(S)	11.0	77.0	18.8
24262 51	Semifabricated		29	57.1	44.5	75.9	31.3
24262 81	Completely fabricated ready for assembly, including furniture parts, except frames	Mil. bd. ft. lumber cons.	79	180.7	149.5	191.6	89.0
	Other industrial dimension stock (for handles, golf clubs, agricultural implements, railroad cars, vehicle parts, ladder parts, skis, gunstocks, brushes, textile machinery stock, and semifabricated industrial parts):						
24262 83	Rough industrial dimension stock	.....	37	(X)	46.7		
24262 85	Semifabricated industrial dimension stock	.....	15	(X)	28.6	(S)	53.2
24262 87	Compression-modified or densified wood (whether or not impregnated with synthetic resin in blocks, plates, sheets, and strip)	.....	1	(X)	(D)		
24262 89	Other completely fabricated hardwood industrial parts	Mil. bd. ft. lumber cons.	6	(D)	(D)	(S)	3.4
24262 00	Hardwood dimension stock, furniture parts, and vehicle stock, n.s.k.	.....	(NA)	(X)	34.8	(X)	17.2
24266 --	Wood frames for household furniture:						
24266 11	Wood furniture frames for household furniture	1,000 units...	135	(S)	104.1	(S)	76.6
24260 00	Hardwood dimension and flooring, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	71.3	(X)	33.6
24260 02	Hardwood dimension and flooring, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	21.3	(X)	38.1

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972 – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	SPECIAL PRODUCT SAWMILLS, N.E.C.						
2429- --	Total	.....	(NA)	(X)	258.7	(X)	175.7
24290 --	Shingles, shakes, cooperage stock, and excelsior:						
	Red cedar shingles and shakes:						
24290 03	Shingles	1,000 squares.	44	*825.0	34.9	**1,105.5	27.6
24290 05	Remanufactured shingles (machine-grooved shakes and rebutted-rejointed shingles)		3	(D)	(D)	(D)	(D)
24290 07	Handsplit shakes (handsplit and resawn, taper and straight split)		63	*1,804.0	87.1	**1,726.9	42.6
24290 09	Shingles and shakes, except red cedar	1,000 squares.	13	*470.5	24.4	(D)	(D)
24290 45	Slack cooperage stock, staves and heading	.....	2	(X)	(D)	(X)	1.3
	Tight cooperage stock:						
24290 61	Staves	Millions.....	22	*15.7	12.2	**33.4	18.1
24290 71	Heading	Mil. sets.....	7	*.8	4.2	1.5	6.3
24290 81	Excelsior (wood wool) baled or bulk	1,000 s. tons.	6	(S)	7.4	62.5	3.9
24290 89	Other excelsior products, including pads and wrappers	.....	2	(X)	(D)	(X)	10.1
24290 00	Shingles, cooperage stock, and excelsior products, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	61.5	(X)	24.2
24290 02	Shingles, cooperage stock, and excelsior products, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	19.5	(X)	20.5

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]1977 and 1972 totals for product classes 24211, 24212, and 24218 are not completely comparable because of 1977 revision to product class structure for industry 2421. For 1972, amount of product code 24218 13 included in product classes 24211 and 24212 is not known.

[4]In 1977, product railway crossties and mine ties was reclassified from product class 24211 to product class 24218. Revision is reflected in 1972 product class totals.

[5]For 1972, unit of measure was million square feet.

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
24111, SOFTWOOD LOGS, BOLTS, AND TIMBER		
United States	2,580.7	(NA)
New England Division:		
Maine	45.8	(NA)
New Hampshire	3.8	(NA)
Middle Atlantic Division:		
New York	5.8	(NA)
East North Central Division:		
Wisconsin	3.5	(NA)
South Atlantic Division:		
North Carolina	42.2	(NA)
South Carolina	68.6	(NA)
Georgia	35.8	(NA)
Florida	11.1	(NA)
East South Central Division:		
Alabama	44.6	(NA)
Mississippi	55.1	(NA)
West South Central Division:		
Arkansas	63.4	(NA)
Texas	60.8	(NA)
Mountain Division:		
Montana	12.4	(NA)
Pacific Division:		
Washington	962.4	(NA)
Oregon	733.3	(NA)
California	219.0	(NA)
24112, HARDWOOD LOGS, BOLTS, AND TIMBER		
United States	241.8	(NA)
New England Division:		
Maine	11.7	(NA)
New Hampshire	2.0	(NA)
Middle Atlantic Division:		
New York	9.4	(NA)
Pennsylvania	14.8	(NA)
East North Central Division:		
Ohio	6.2	(NA)
Indiana	5.7	(NA)
Michigan	8.1	(NA)
West North Central Division:		
Iowa	3.1	(NA)
Missouri	4.4	(NA)
South Atlantic Division:		
Maryland	6.1	(NA)
Virginia	5.9	(NA)
West Virginia	5.3	(NA)
North Carolina	16.1	(NA)
South Carolina	22.0	(NA)
Georgia	2.4	(NA)
East South Central Division:		
Kentucky	7.3	(NA)
Tennessee	3.7	(NA)
Alabama	13.7	(NA)
Mississippi	17.4	(NA)
West South Central Division:		
Arkansas	14.2	(NA)
Louisiana	2.7	(NA)
Texas	17.8	(NA)
Pacific Division:		
Washington	6.2	(NA)
Oregon	4.8	(NA)
California	10.6	(NA)

Product class and geographic area	Value of product shipments	
	1977	1972
24113, PULPWOOD		
United States	383.2	126.4
New England Division:		
Maine	110.1	(NA)
Middle Atlantic Division:		
New York	24.6	(NA)
Pennsylvania	6.9	(NA)
East North Central Division:		
Michigan	7.5	(NA)
Wisconsin	11.7	(NA)
West North Central Division:		
Minnesota	28.7	(NA)
South Atlantic Division:		
North Carolina	18.1	(NA)
South Carolina	10.6	(NA)
Georgia	26.9	(NA)
Florida	21.8	(NA)
East South Central Division:		
Alabama	18.4	(NA)
Mississippi	9.2	(NA)
West South Central Division:		
Arkansas	3.9	(NA)
Louisiana	17.4	(NA)
Texas	6.3	(NA)
Pacific Division:		
Washington	22.4	(NA)
24114, OTHER ROUNDWOOD PRODUCTS		
United States	71.3	32.0
Middle Atlantic Division:		
Pennsylvania	2.0	(NA)
South Atlantic Division:		
Virginia	2.2	(NA)
Georgia	11.6	(NA)
Florida	4.1	(NA)
East South Central Division:		
Alabama	8.2	(NA)
Mississippi	2.7	(NA)
West South Central Division:		
Louisiana	9.5	(NA)
Pacific Division:		
Washington	3.1	(NA)
Oregon	5.6	(NA)
California	2.3	(NA)
24119, RECEIPTS FOR CONTRACT LOGGING		
United States	757.5	404.2
New England Division:		
Maine	20.1	5.4
New Hampshire	2.3	(NA)
East North Central Division:		
Wisconsin	2.1	BB
South Atlantic Division:		
Maryland	2.4	(NA)
Virginia	5.5	4.5
West Virginia	3.3	1.2
North Carolina	16.8	6.1
South Carolina	11.5	2.8
Georgia	11.8	1.8
Florida	8.1	12.7
East South Central Division:		
Tennessee	6.9	(NA)
Alabama	8.3	5.6
Mississippi	9.2	2.8

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** – Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
24119, RECEIPTS FOR CONTRACT LOGGING--Con.		
West South Central Division:		
Arkansas	13.0	4.3
Louisiana	8.2	BB
Texas	16.8	14.9
Mountain Division:		
Montana	24.6	10.9
Idaho	51.5	28.9
Arizona	3.8	3.7
Pacific Division:		
Washington	172.4	75.8
Oregon	212.4	135.1
California	101.9	59.7
Alaska	31.9	10.2
24211, HARDWOOD LUMBER, ROUGH AND DRESSED, EXCEPT SIDING		
United States	972.9 [1]	r491.9
New England Division:		
Maine	7.3	3.3
New Hampshire	10.1	BB
Vermont	12.5	4.8
Massachusetts	7.1	3.0
Connecticut	2.1	(NA)
Middle Atlantic Division:		
New York	42.9	19.8
Pennsylvania	80.2	39.7
East North Central Division:		
Ohio	36.3	23.4
Indiana	36.6	13.9
Illinois	8.8	4.1
Michigan	43.9	27.9
Wisconsin	50.7	16.8
West North Central Division:		
Minnesota	6.7	4.5
Iowa	5.4	5.2
Missouri	13.3	7.6
Kansas	4.1	BB
South Atlantic Division:		
Maryland	9.6	7.9
Virginia	52.1	28.0
West Virginia	45.2	30.0
North Carolina	49.9	23.0
South Carolina	34.9	17.1
Georgia	38.0	10.5
Florida	5.2	BB
East South Central Division:		
Kentucky	28.4	22.4
Tennessee	47.1	24.9
Alabama	39.1	25.2
Mississippi	70.0	25.3
West South Central Division:		
Arkansas	45.3	20.1
Louisiana	31.8	27.9
Texas	20.1	7.0
Pacific Division:		
Washington	31.6	25.3
Oregon	14.1	18.3
California	31.5	EE
24212, SOFTWOOD LUMBER, ROUGH AND DRESSED, EXCEPT SIDING		
United States	6,889.7 [1]	3,907.8
New England Division:		
Maine	82.5	29.0
New Hampshire	24.8	7.2
Vermont	15.9	2.4
Massachusetts	9.1	3.4

Product class and geographic area	Value of product shipments	
	1977	1972
24212, SOFTWOOD LUMBER, ROUGH AND DRESSED, EXCEPT SIDING--Con.		
Middle Atlantic Division:		
New York	7.2	BB
Pennsylvania	6.0	5.4
East North Central Division:		
Ohio	4.3	3.5
Indiana	6.5	3.1
Michigan	13.3	4.9
Wisconsin	11.4	9.7
West North Central Division:		
Minnesota	9.5	3.9
South Dakota	17.4	8.0
South Atlantic Division:		
Maryland	4.2	3.7
Virginia	86.6	55.5
North Carolina	138.5	81.3
South Carolina	129.6	74.0
Georgia	278.1	117.7
Florida	66.9	46.8
East South Central Division:		
Kentucky	3.1	9.8
Tennessee	14.6	6.0
Alabama	224.0	121.5
Mississippi	212.8	93.6
West South Central Division:		
Arkansas	238.0	149.7
Louisiana	150.7	76.8
Oklahoma	38.1	22.0
Texas	154.7	95.1
Mountain Division:		
Montana	238.1	153.8
Idaho	432.1	260.0
Wyoming	46.2	19.3
Colorado	30.7	16.8
New Mexico	42.4	27.1
Arizona	76.3	36.6
Utah	9.0	CC
Pacific Division:		
Washington	884.5	485.6
Oregon	1,760.9	996.8
California	1,336.8	824.8
Alaska	56.7	27.3
24215, WOOD CHIPS		
United States	1,079.5	505.4
New England Division:		
Maine	32.2	6.4
New Hampshire	4.8	1.7
Middle Atlantic Division:		
New York	4.6	2.1
Pennsylvania	6.2	3.1
East North Central Division:		
Ohio	4.2	1.6
Michigan	5.0	1.1
Wisconsin	8.6	2.3
West North Central Division:		
Minnesota	27.6	EE
Missouri	2.2	1.4
South Atlantic Division:		
Virginia	17.3	7.4
West Virginia	2.9	1.8
North Carolina	76.1	50.4
South Carolina	45.3	14.8
Georgia	85.5	26.1
Florida	24.3	10.4

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** — Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
24215, WOOD CHIPS--Con.		
East South Central Division:		
Kentucky	2.7	3.3
Tennessee	7.4	2.3
Alabama	52.2	19.3
Mississippi	51.3	26.5
West South Central Division:		
Arkansas	61.9	19.7
Louisiana	27.1	20.5
Texas	34.7	EE
Mountain Division:		
Montana	17.9	CC
Idaho	20.3	8.4
Wyoming	2.2	(NA)
Pacific Division:		
Washington	168.0	68.1
Oregon	197.0	117.7
California	52.6	FF
Alaska	5.8	AA
24217, SOFTWOOD CUT STOCK		
United States	229.5	155.9
New England Division:		
Vermont	2.7	(NA)
South Atlantic Division:		
North Carolina	7.1	AA
Mountain Division:		
Idaho	13.3	8.3
Pacific Division:		
Washington	47.6	30.7
Oregon	49.2	39.1
California	66.5	37.4
24218, SOFTWOOD FLOORING, SIDING, AND OTHER MILL PRODUCTS		
United States	125.2	157.2
New England Division:		
Maine	3.8	(NA)
Middle Atlantic Division:		
Pennsylvania	2.3	(NA)
East North Central Division:		
Illinois	2.0	(NA)
Wisconsin	3.8	(NA)
West North Central Division:		
Minnesota	2.5	(NA)
Missouri	2.5	(NA)
South Atlantic Division:		
Virginia	4.9	(NA)
North Carolina	6.6	(NA)
South Carolina	2.2	(NA)
Florida	3.0	(NA)
East South Central Division:		
Kentucky	2.4	(NA)
Tennessee	2.4	(NA)
Alabama	5.0	(NA)
Mississippi	6.1	(NA)
West South Central Division:		
Arkansas	5.4	(NA)
Louisiana	2.8	(NA)
Texas	3.3	(NA)
Mountain Division:		
Montana	2.5	(NA)
Idaho	8.4	(NA)
Pacific Division:		
Washington	9.7	(NA)
Oregon	5.2	(NA)
California	17.4	(NA)
24219, CONTRACT/CUSTOM SAWING OF LOGS OWNED BY OTHERS		
United States	90.7	40.9
East North Central Division:		
Michigan	2.2	2.5
South Atlantic Division:		
Virginia	3.0	(NA)
East South Central Division:		
Tennessee	4.6	1.8
Mountain Division:		
Idaho	6.5	1.2
Pacific Division:		
Washington	4.0	1.5
Oregon	13.2	CC
California	16.0	6.5
24261, HARDWOOD FLOORING		
United States	159.6	118.6
Middle Atlantic Division:		
New York	2.1	(NA)
East North Central Division:		
Michigan	8.0	BB
South Atlantic Division:		
Virginia	15.9	12.1
East South Central Division:		
Kentucky	7.3	3.3
Tennessee	35.4	29.8
West South Central Division:		
Arkansas	22.3	FF
24262, HARDWOOD DIMENSION, FURNITURE PARTS, AND VEHICLE STOCK		
United States	451.1	304.6
New England Division:		
Maine	6.3	8.0
Vermont	3.8	2.9
Massachusetts	3.3	(NA)
Middle Atlantic Division:		
New York	14.0	CC
Pennsylvania	23.0	14.1
East North Central Division:		
Ohio	4.9	9.8
Indiana	16.7	10.2
Illinois	5.0	2.4
Michigan	12.2	7.4
Wisconsin	11.1	5.9
West North Central Division:		
Minnesota	6.6	1.0
Missouri	8.8	7.9
South Atlantic Division:		
Virginia	29.6	8.5
West Virginia	4.6	BB
North Carolina	47.5	34.4
South Carolina	5.5	3.9
East South Central Division:		
Kentucky	43.0	28.9
Tennessee	77.9	36.9
Alabama	8.0	8.0
Mississippi	44.3	21.9
West South Central Division:		
Arkansas	23.4	24.9
Texas	4.4	5.5
Pacific Division:		
Washington	5.7	CC
Oregon	9.1	8.0
California	14.8	14.8

See footnotes at end of table.

Table 6b. **Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972**—Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments		Product class and geographic area	Value of product shipments	
	1977	1972		1977	1972
24266, WOOD FRAMES FOR HOUSEHOLD FURNITURE			24266, WOOD FRAMES FOR HOUSEHOLD FURNITURE--Con.		
United States	104.1	76.6	East South Central Division:		
New England Division:			Mississippi	20.5	12.4
Massachusetts	2.4	2.0			
Middle Atlantic Division:			West South Central Division:		
New York	2.2	3.2	Arkansas	4.9	6.0
Pennsylvania	5.1	3.8			
South Atlantic Division:			Pacific Division:		
North Carolina	29.8	17.1	California	12.6	BB

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.

(NA) Not available. [r]Revised.

[1]1977 data for product classes 24211, 24212, and 24218 are not completely comparable to prior years because of 1977 revision to product class structure for industry 2421. For 1977, railway crossties and mine ties were switched from 24211 to 24218 and woodsiding from 24211 and 24212 to 24218. 1972 data for 24211 and 24218 have been revised to reflect switch of railway crossties and mine ties which represented approximately 5 percent for 24211 and 18 percent for 24218 of original figures. 1972 data were not revised to reflect switch of woodsiding. For 1972, data for woodsiding are not known.

Table 6c. **Product Classes — Value Shipped by All Producers: 1963, 1967, and 1972 to 1977**

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2411-	Logging camp products and contract logging	5,757.5	4,263.8	3,566.3	3,742.3	3,440.4	2,601.4	1,515.2	1,185.6
24111	Softwood logs, bolts, and timber	2,580.7					1,090.9	566.6	488.9
24112	Hardwood logs, bolts, and timber	241.8	[2]3,386.4	[2]2,809.5	[2]2,991.2	[2]2,909.9			
24113	Pulpwood	383.2					126.4	103.0	139.8
24114	Other roundwood products	71.3					32.0	31.0	36.1
24119	Receipts for contract logging	757.5	877.4	756.7	751.1	530.5	404.2	270.4	336.3
24110	Logging products and contract logging, n.s.k.	1,722.9	([2])	([2])	([2])	([2])	947.9	544.0	184.5
2421-	Sawmill and planing mill products	10,465.7	8,477.3	6,352.9	7,650.1	7,452.2	6,063.3	3,287.8	2,794.6
24211	Hardwood lumber, rough and dressed, except siding	972.9	[3]1,186.7	[3]970.9	[3]1,018.8	[3]816.4	[3] [r]491.9	[3]2,404.7	[3]2,398.1
24212	Softwood lumber, rough and dressed, except siding	6,899.7	[3]5,426.3	[3]3,772.2	[3](S)	[3]4,848.3	[3]3,907.8		
24215	Wood chips	1,079.5	1,102.7	978.7	819.2	570.0	505.4	188.1	([4])
24217	Softwood cut stock	229.5	252.9	163.2	161.2	156.4	155.9	84.9	87.9
24218	Softwood flooring, siding, and other mill products	125.2	[3](196.7)	[3](143.1)	[3](123.4)	[3]167.7	[3] [r]157.2	[3]54.5	[3]57.4
24219	Contract/custom sawing of logs owned by others	90.7	57.3	(37.5)	39.6	62.7	40.9	31.3	51.7
24210	Sawmill and planing mill products, n.s.k.	1,068.2	(254.7)	[r](287.1)	563.2	830.7	804.1	524.3	199.5
2426-	Hardwood dimension and flooring	807.5	725.1	570.5	619.5	676.9	571.5	422.6	(NA)
24261	Hardwood flooring	159.6	127.6	(117.1)	128.3	138.6	118.6	129.2	154.2
24262	Hardwood dimension, furniture parts, and vehicle stock	451.1	408.0	304.4	331.4	349.6	304.6	216.7	169.8
24266	Wood frames for household furniture	104.1	(134.1)	(105.2)	105.8	120.1	76.6	52.4	53.4
24260	Hardwood dimension and flooring, n.s.k.	92.6	(55.4)	(43.8)	(54.0)	68.6	71.7	24.3	10.2
24290	Shingles, shakes, cooperage stock, and excelsior	258.7	(256.1)	(218.3)	227.0	201.8	175.7	115.8	[4]177.3

(NA) Not available. n.s.k. Not specified by kind. [r]Revised. (S) Withheld because estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]For 1973 through 1976, data for product class 24110 included with combined total for product classes 24111, 24112, 24113, and 24114.

[3]1977 data for product classes 24211, 24212, and 24218 are not completely comparable to prior years because of 1977 revision to product class structure for industry 2421. For 1977, railway crossties and mine ties were switched from 24211 to 24218 and woodsiding from 24211 and 24212 to 24218. 1972 data for 24211 and 24218 have been revised to reflect switch of railway crossties and mine ties which represented approximately 5 percent for 24211 and 18 percent for 24218 of original figures. 1972 data were not revised to reflect switch of woodsiding. For 1972, data for woodsiding are not known.

[4]Prior to 1967, data for wood chips, product class 24215, were included in product class 24290.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977, delivered cost (million dollars)	1972, delivered cost (million dollars)
	INDUSTRY 2411, LOGGING CAMPS AND LOGGING CONTRACTORS			
	Materials, parts, containers, and supplies	.....	2,376.3	911.8
081111	Cost of stumpage cut, excluding land value, for use as logs, lumber, veneer, plywood, or other wood products	.....	1,146.9	
970099	All other materials and components, parts, containers, and supplies	.....	349.9	911.8
971000	Materials, parts, containers, and supplies, n.s.k.[1]	.....	879.5	

1977 material code	Material	Unit of measure	1977 Quantity[2]	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2421, SAWMILLS AND PLANING MILLS, GENERAL					
	Materials, parts, and supplies	.....	(X)	5,718.5	(X)	3,058.6
081111	Cost of stumpage cut, excluding land value for use in the manufacture of logs, lumber, veneer, plywood, or other wood products	.....	(X)	848.3	(X)	608.6
	Logs, bolts, and unsliced flitches:					
241111	Hardwood	Million ft. (log scale).	*2,829.4	326.8	3,369.9	193.5
241112	Softwood	Million ft. (log scale).	17,306.3	2,648.1	13,399.9	1,053.2
	Rough lumber:					
242110	Hardwood	Million bd. ft.	633.6	98.9	790.9	74.4
242121	Softwood	Million bd. ft.	*2,233.4	410.1	2,782.8	289.7
242111	Rough lumber, hardwood and softwood	.....	(X)	(3)	(X)	2.4
	Dressed lumber:					
242117	Hardwood	Million bd. ft.	25.2	5.2	38.6	6.8
242128	Softwood	Million bd. ft.	793.8	161.2	728.6	92.5
289101	Glues and adhesives	Million lb.....	(S)	19.7	(X)	302.2
970099	All other materials and components, parts, containers, and supplies	.....	(X)	[3]441.3		
971000	Materials, parts, and supplies, n.s.k.[1]	.....	(X)	758.9	(X)	435.3
	INDUSTRY 2426, HARDWOOD DIMENSION AND FLOORING					
	Materials, parts, and supplies	.....	(X)	398.7	(X)	277.1
081111	Cost of stumpage cut, excluding land value, for use in the manufacture of logs, lumber, veneer, plywood, or other wood products	.....	(X)	3.5	(X)	4.8
	Logs, bolts, and unsliced flitches:					
241111	Hardwood	Million ft. (log scale).	*261.7	31.8	337.6	23.3
241112	Softwood	Million ft. (log scale).	*17.5	2.6	52.1	3.8
	Rough lumber:					
242110	Hardwood	Million bd. ft.	*809.2	193.2	790.3	101.3
242121	Softwood	↑	*22.6	6.3	81.7	11.7
	Dressed lumber:					
242117	Hardwood	↓	(S)	28.0	(S)	6.8
242128	Softwood	Million bd. ft.	*30.1	8.6	10.5	2.5
289101	Glues and adhesives	Million lb.....	**19.4	3.3	(X)	67.4
970099	All other materials and components, parts, containers, and supplies	.....	(X)	56.1		
971000	Materials, parts, and supplies, n.s.k.[1]	.....	(X)	65.3	(X)	55.5

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[2]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2429, SPECIAL PRODUCT SAWMILLS, N.E.C.					
	Materials, parts, and supplies		(X)	125.9	(X)	87.3
081111	Cost of stumpage cut, excluding land value, for use in the manufacture of logs, lumber, veneer plywood or other wood products		(X)	7.1	(X)	7.5
	Logs, bolts, and unsliced flitches:					
241111	Hardwood	Million ft. (log scale).	**46.4	14.8	**61.5	8.3
241112	Softwood	Million ft. (log scale).	**234.3	58.3	**250.0	26.3
970099	All other materials and components, parts, containers, and supplies		(X)	7.6	(X)	27.6
971000	Materials, parts, and supplies, n.s.k.[1]		(X)	38.1	(X)	17.6

N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]For 1977, material code 242111 was included with material code 970099 to avoid disclosing operations of individual companies.

Millwork, Plywood, and Structural Wood Members, N.E.C.

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DESCRIPTION OF INDUSTRIES

MILLWORK, PLYWOOD, AND STRUCTURAL WOOD MEMBERS, N.E.C.

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2431	Millwork
2434	Wood Kitchen Cabinets
2435	Hardwood Veneer and Plywood
2436	Softwood Veneer and Plywood
2439	Structural Wood Members, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregrates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.) This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2431, MILLWORK

This industry comprises establishments primarily engaged in the manufacture of fabricated millwork. Planing mills primarily engaged in producing millwork are included in this industry, but planing mills primarily producing standard workings or patterns of lumber are classified in industry 2421. Establishments primarily engaged in the the manufacture of wood kitchen cabinets and bathroom vanities are classified in industry 2434.

The total value of shipments for establishments classified in the Millwork industry amounted to $3,928 million in 1977, an increase of 62 percent from 1972. The value of shipments of products classified as primary to the industry was $3,693 million, an increase of 66 percent from 1972. (See the introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were wood window units, for which shipments increased 120 percent, and wood doors, for which shipments increased 65 percent. Value added by manufacture, at $1,498 million in 1977, was 56 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 68.6 thousand employees, a decrease of 3 percent from 1972. The leading States in employment were California, Texas, Wisconsin, and Minnesota, accounting for approximately 40 percent of the industry's 1977 employment. This represents a shift from 1972 when California, Texas, Wisconsin, and Oregon accounted for approximately 35 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 11 percent of total value of shipments.

INDUSTRY 2434, WOOD KITCHEN CABINETS

This industry comprises establishments primarily engaged in the manufacture of wood kitchen cabinets and wood bathroom vanities. Establishments primarily engaged in the manufacture of wood household furniture are classified in industry 2511.

The total value of shipments for establishments classified in the Wood Kitchen Cabinets industry amounted to $1,591 million in 1977, an increase of 77 percent from 1972. The value of shipments of products classified as primary to the industry was $1,563 million, an increase of 81 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $869 million in 1977, was 78 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 46.2 thousand employees, an increase of 19 percent from 1972. The leading States in employment were California, Indiana, Pennsylvania, and Florida, accounting for approximately 35 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 40

percent of the industry's employment, although there has been some shift in the relative importance of individual States.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 14 percent of total value of shipments.

INDUSTRY 2435, HARDWOOD VENEER AND PLYWOOD

This industry comprises establishments primarily engaged in the manufacture of commercial hardwood veneer, either face or technical, and those primarily engaged in the manufacture of commercial plywood or prefinished hardwood plywood. This includes nonwood backed or faced veneer and nonwood faced plywood, from veneer produced in the same establishment or from purchased veneer. Establishments primarily engaged in the production of veneer used in the same establishment for the manufacture of end products, such as fruit and vegetable baskets and wood boxes, are classified in industries 2441 and 2449.

The total value of shipments for establishments classified in the Hardwood Veneer and Plywood industry amounted to $1,272 million in 1977, an increase of 40 percent from 1972. The value of shipments of products classified as primary to the industry was $1,160 million, an increase of 33 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were hardwood plywood, for which shipments increased 26 percent, and prefinished hardwood plywood made from purchased plywood, for which shipments increased 34 percent. Value added by manufacture, at $420 million in 1977, was 23 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 22.3 thousand employees, a decrease of 11 percent from 1972. The leading States in employment were North Carolina, Indiana, Wisconsin, and Oregon, accounting for approximately 45 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 45 percent of the industry's employment.

The 1977 census obtained data on shipments of hardwood veneer and plywood only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the shipments of hardwood veneer and plywood are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-24F, Hardwood Plywood. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 3 percent of total value of shipments.

INDUSTRY 2436, SOFTWOOD VENEER AND PLYWOOD

This industry comprises establishments primarily engaged in the manufacture of commercial softwood veneer and plywood, from veneer produced in the same establishment or from purchased veneer. Establishments primarily engaged in the manufacture of commercial hardwood veneer and plywood are classified in industry 2435. Establishments primarily engaged in the production of veneer used in the same establishment for the manufacture of end products, such as fruit and vegetable baskets and wood boxes, are classified in industries 2441 and 2449.

The total value of shipments for establishments classified in the Softwood Veneer and Plywood industry amounted to $3,805 million in 1977, an increase of 89 percent from 1972. The value of shipments of products classified as primary to the industry was $3,582 million, an increase of 85 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $1,584 million in 1977, was 69 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 46.2 thousand employees, an increase of 6 percent from 1972. The leading States in employment were Oregon, Washington, Texas, and Louisiana, accounting for 67 percent of the industry's 1977 employment.

The 1977 census obtained data on shipments of softwood veneer and plywood only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the shipments of softwood veneer and plywood are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-24H, Softwood Plywood. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2439, STRUCTURAL WOOD MEMBERS, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of laminated or fabricated trusses, arches, and

other structural members of lumber. Establishments primarily engaged in fabrication on the site of construction are classified in Division C, Construction, of the Standard Industrial Classification (SIC) Manual. Establishments primarily engaged in producing prefabricated wooden buildings, sections, and panels are classified in industry 2452.

The total value of shipments for the establishments classified in the Structural Wood Members, N.E.C. industry amounted to $808 million in 1977, an increase of 77 percent from 1972. The value of shipments of products classified as primary to the industry was $782 million, an increase of 71 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were roof trusses made of sawn lumber, light construction, sold separately, for which shipments increased 100 percent. Value added by manufacture, at $330 million in 1977, was 80 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 13.8 thousand employees, an increase of 10 percent from 1972. The leading States in employment were California, Florida, Oregon, and Michigan, accounting for approximately 35 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 35 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 9 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2431, MILLWORK[3]																
1977 Census--	2 209	2 333	692	68.6	742.2	56.6	108.4	542.0	1 497.9	2 460.4	3 928.1	81.0	(NA)	605.0	94	94
1976 ASM----	(NA)	(NA)	(NA)	60.5	633.0	49.8	97.7	459.2	1 276.0	1 946.0	3 185.7	66.0	573.1	490.5	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	54.8	538.1	44.3	85.7	375.2	1 028.6	1 486.7	2 499.5	45.0	539.2	419.3	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	59.1	517.3	48.1	93.9	367.9	923.1	1 544.1	2 471.3	61.7	518.6	397.1	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	72.0	567.6	51.5	111.3	418.0	1 087.9	1 715.6	2 756.6	51.5	496.6	443.2	(NA)	(NA)
1972 Census--	2 340	2 434	720	70.5	524.5	58.4	110.8	383.6	962.7	1 485.4	2 426.8	57.2	490.1	365.2	94	94
INDUSTRY 2434, WOOD KITCHEN CABINETS[3]																
1977 Census--	2 541	2 583	510	46.2	481.1	38.7	72.3	352.3	868.8	730.6	1 590.8	36.7	(NA)	212.3	96	96
1976 ASM----	(NA)	(NA)	(NA)	32.8	309.9	27.0	48.0	229.5	555.5	478.7	1 020.9	23.1	209.3	143.6	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	31.3	282.1	25.6	46.0	206.3	469.1	428.0	906.1	19.4	218.2	127.6	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	35.4	292.1	29.3	54.0	216.9	494.0	467.3	962.4	23.0	214.4	137.8	(NA)	(NA)
1973 ASM[6]---	(NA)	(NA)	(NA)	43.1	326.8	36.5	72.1	240.7	531.1	497.8	1 031.7	27.8	234.7	149.3	(NA)	(NA)
1972 Census--	1 761	1 796	396	38.8	286.6	32.2	62.0	208.1	486.7	420.1	897.2	28.3	218.8	119.7	95	96
INDUSTRY 2435, HARDWOOD VENEER AND PLYWOOD[3]																
1977 Census--	274	321	227	22.3	211.5	19.1	37.9	162.0	420.4	860.4	1 272.3	29.6	(NA)	197.7	91	93
1976 ASM----	(NA)	(NA)	(NA)	21.9	180.4	19.1	37.4	137.7	328.9	642.3	970.1	17.9	246.5	147.3	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	20.6	159.3	17.8	34.3	118.3	268.2	569.9	847.1	21.4	255.4	132.1	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	25.4	183.3	22.1	43.6	141.0	297.7	664.7	956.0	23.3	257.1	160.7	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	25.0	165.9	21.9	44.4	129.8	341.8	602.9	945.4	14.6	249.5	159.1	(NA)	(NA)
1972 Census--	326	366	254	25.1	165.2	22.1	46.1	129.1	340.8	582.4	911.8	32.1	254.2	142.0	91	92
INDUSTRY 2436, SOFTWOOD VENEER AND PLYWOOD[3]																
1977 Census--	129	256	224	46.2	634.6	41.9	89.4	556.9	1 583.7	2 231.1	3 804.8	105.6	(NA)	242.6	88	91
1976 ASM----	(NA)	(NA)	(NA)	45.0	537.8	40.5	84.5	468.0	1 304.2	1 880.5	3 164.1	85.0	1 256.9	220.0	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	41.1	438.6	36.7	75.0	377.5	850.3	1 386.5	2 243.5	84.7	1 106.6	176.9	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	42.8	421.1	38.5	78.1	363.3	832.0	1 299.8	2 123.8	85.1	977.2	170.6	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	45.5	442.2	41.3	87.7	388.7	1 097.2	1 283.5	2 365.1	80.8	911.9	153.9	(NA)	(NA)
1972 Census--	121	232	225	43.7	403.6	39.9	85.3	356.5	935.4	1 071.3	2 011.5	65.4	797.5	113.6	88	89

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
	INDUSTRY 2439, STRUCTURAL WOOD MEMBERS, N.E.C.[3]															
1977 Census--	620	656	225	13.8	147.0	11.0	20.8	101.6	330.0	484.4	807.7	19.7	(NA)	87.3	94	93
1976 ASM[6] ---	(NA)	(NA)	(NA)	12.3	130.3	9.6	18.8	86.3	291.2	363.5	654.7	20.5	119.9	65.0	(NA)	(NA)
1975 ASM[6] ---	(NA)	(NA)	(NA)	10.9	107.4	8.6	16.9	70.8	220.3	287.6	510.1	16.0	131.4	54.1	(NA)	(NA)
1974 ASM[6] ---	(NA)	(NA)	(NA)	11.3	97.9	8.8	17.7	65.1	217.2	292.2	509.4	17.6	108.3	55.7	(NA)	(NA)
1973 ASM[6] ---	(NA)	(NA)	(NA)	14.1	111.5	10.7	19.8	75.3	220.6	368.4	584.6	17.4	94.8	63.5	(NA)	(NA)
1972 Census--	642	678	196	12.6	94.4	9.8	18.6	62.6	182.8	276.0	456.0	11.8	83.7	48.5	95	90

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2431, MILLWORK										
1977 Census--	10 824	(NA)	82	1 913	5.00	62	81	(NA)	21 847	49	13.81
1976 ASM----	10 462	9 472	82	1 961	4.70	61	80	17	21 090	49	13.06
1975 ASM----	9 819	9 839	80	1 934	4.37	59	81	21	18 770	52	12.00
1974 ASM----	8 752	8 774	81	1 952	3.91	62	83	20	15 619	56	9.83
1973 ASM----	7 883	6 897	71	2 161	3.75	62	82	18	15 109	52	9.77
1972 Census--	7 439	6 951	82	1 897	3.46	61	82	20	13 655	54	8.68
	INDUSTRY 2434, WOOD KITCHEN CABINETS										
1977 Census--	10 421	(NA)	83	1 869	4.87	45	76	(NA)	18 818	55	12.01
1976 ASM----	9 448	6 381	82	1 777	4.78	46	77	20	16 935	55	11.57
1975 ASM----	9 012	6 971	81	1 796	4.48	47	78	24	14 987	60	10.19
1974 ASM----	8 251	6 056	82	1 843	4.01	48	78	22	13 954	59	9.14
1973 ASM----	7 582	5 445	84	1 975	3.33	48	79	22	12 322	61	7.36
1972 Census--	7 386	5 639	82	1 925	3.35	46	78	24	12 543	58	7.85
	INDUSTRY 2435, HARDWOOD VENEER AND PLYWOOD										
1977 Census--	9 463	(NA)	85	1 982	4.27	67	84	(NA)	18 811	50	11.08
1976 ASM----	8 237	11 255	87	1 958	3.68	66	84	25	15 018	54	8.79
1975 ASM----	7 733	12 398	86	1 926	3.44	67	86	30	13 019	59	7.81
1974 ASM----	7 216	10 122	87	1 972	3.23	69	88	26	11 720	61	6.82
1973 ASM----	6 636	9 980	87	2 027	2.92	63	81	26	13 672	48	7.69
1972 Census--	6 581	10 127	88	2 085	2.80	63	81	27	13 577	48	7.39
	INDUSTRY 2436, SOFTWOOD VENEER AND PLYWOOD										
1977 Census--	13 730	(NA)	90	2 131	6.22	58	75	(NA)	34 264	40	17.70
1976 ASM----	11 951	27 931	90	2 086	5.53	59	76	39	28 982	41	15.43
1975 ASM----	10 671	26 924	89	2 043	5.03	61	81	49	20 688	51	11.33
1974 ASM----	9 838	22 831	89	2 028	4.65	61	81	46	19 439	50	10.65
1973 ASM----	9 718	20 041	90	2 123	4.43	54	72	38	24 114	40	12.51
1972 Census--	9 235	18 249	91	2 137	4.17	53	73	39	21 405	43	10.96

See footnotes at end of table.

Table 1b. **Selected Operating Ratios for the Industry: 1977 and Earlier Years**—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2439, STRUCTURAL WOOD MEMBERS, N.E.C.										
1977 Census--	10 679	(NA)	79	1 894	4.88	59	78	(NA)	23 975	44	15.86
1976 ASM----	10 593	9 747	78	1 958	4.59	55	75	18	23 674	44	15.48
1975 ASM----	9 853	12 055	78	1 965	4.18	56	77	25	20 211	48	13.03
1974 ASM----	8 663	9 584	77	2 011	3.67	57	76	21	19 221	45	12.27
1973 ASM----	7 907	6 723	75	1 850	3.80	63	82	16	15 645	50	11.14
1972 Census--	7 492	6 642	77	1 897	3.36	60	81	18	14 507	51	9.82

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2431, MILLWORK													
United States	**E1**	**2 333**	**692**	**68.6**	**742.2**	**56.6**	**108.4**	**542.0**	**1 497.9**	**2 460.4**	**3 928.1**	**81.0**	**70.5**	**962.7**
New England Division:													
Maine	E3	11	5	0.2	1.4	0.1	0.3	1.1	2.1	3.3	5.3	0.1	(NA)	(NA)
New Hampshire	-	17	5	0.5	4.5	0.4	0.8	2.8	9.0	16.8	25.8	0.5	0.7	7.0
Massachusetts	E2	59	15	1.0	10.6	0.7	1.4	6.5	21.1	29.0	50.1	(D)	1.1	12.8
Connecticut	E1	34	2	0.2	2.3	0.2	0.4	1.6	4.4	6.1	10.4	0.2	0.3	4.0
Middle Atlantic Division:													
New York	E1	132	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	42.2
New Jersey	-	71	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	25.5
Pennsylvania	-	103	28	1.9	19.1	1.5	2.9	13.4	38.2	74.5	112.2	2.0	2.0	27.0
East North Central Division:													
Ohio	-	77	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	33.1
Indiana	-	52	18	1.5	14.8	1.2	2.3	10.1	33.3	70.2	103.1	1.8	2.5	37.1
Illinois	E1	102	31	3.4	38.6	2.7	5.1	26.2	75.4	106.4	179.3	5.7	2.1	28.0
Michigan	E3	72	15	1.7	18.1	1.3	2.4	12.2	38.1	61.9	99.9	2.4	1.2	17.9
Wisconsin	-	73	35	5.6	66.2	4.7	10.0	49.0	137.9	154.4	286.1	5.0	5.9	69.0
West North Central Division:													
Minnesota	-	37	16	4.4	65.2	3.7	6.3	51.1	132.4	210.0	348.3	6.6	2.8	57.1
Iowa	-	13	7	2.0	25.9	1.8	3.4	21.1	45.7	55.0	99.4	(D)	2.3	29.3
Missouri	E3	43	11	0.9	7.9	0.7	1.4	5.8	15.7	23.8	39.2	0.7	1.7	24.7
South Dakota	-	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Nebraska	-	17	5	0.4	4.2	0.4	0.7	3.1	8.6	15.8	23.5	0.6	0.2	2.2
Kansas	E1	24	5	0.5	3.7	0.4	0.8	3.0	6.4	4.5	10.8	0.7	0.4	4.8
South Atlantic Division:													
Maryland	E1	32	13	0.7	7.2	0.5	1.1	4.8	11.5	23.0	34.3	0.6	1.1	15.8
Virginia	-	41	16	2.2	18.8	1.7	3.3	12.3	41.6	68.9	109.9	5.1	3.0	35.7
North Carolina	E2	56	13	0.9	8.3	0.8	1.5	5.8	17.8	34.3	51.6	0.8	1.1	15.1
South Carolina	-	39	11	0.6	5.9	0.5	1.0	3.7	13.5	28.1	41.3	(D)	0.9	12.3
Georgia	-	49	12	0.8	7.3	0.6	1.2	4.9	20.3	40.2	60.5	0.6	EE	(D)
Florida	E3	123	22	1.7	14.9	1.4	2.6	10.9	25.8	40.7	65.5	2.4	2.2	25.3
East South Central Division:													
Kentucky	-	10	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.6
Tennessee	E3	35	12	1.4	12.2	1.1	2.1	7.9	23.0	36.4	57.9	0.8	1.2	13.8
Alabama	-	44	17	1.3	10.8	1.0	1.8	6.6	25.4	57.0	81.1	0.6	1.5	20.9
Mississippi	-	25	8	0.4	3.8	0.3	0.6	2.4	10.2	19.6	29.5	0.4	0.5	5.5
West South Central Division:													
Arkansas	E2	17	3	0.3	2.1	0.2	0.5	1.6	3.9	7.9	11.8	(D)	AA	(D)
Louisiana	E2	40	12	0.7	6.3	0.6	1.1	4.2	10.7	18.3	28.9	0.5	0.6	8.1
Oklahoma	-	13	4	0.2	2.3	0.2	0.4	1.6	3.1	5.1	8.2	(Z)	AA	(D)
Texas	-	148	55	6.1	52.8	5.0	9.2	36.1	113.7	220.5	332.0	6.3	6.2	70.5
Mountain Division:													
Montana	E1	13	4	0.4	4.6	0.3	0.6	3.7	8.4	11.4	19.7	0.1	0.3	4.2
Idaho	E3	25	6	0.9	7.4	0.7	1.3	5.8	14.4	19.8	33.3	1.9	EE	(D)
Colorado	E4	36	4	0.3	3.2	0.2	0.4	2.2	5.8	7.1	12.9	0.3	0.5	5.4
New Mexico	E1	22	8	0.4	3.8	0.3	0.7	2.9	10.3	18.4	28.6	0.3	0.4	5.7
Arizona	-	35	9	0.6	6.7	0.5	1.0	4.7	13.8	30.4	43.6	0.4	0.9	13.6
Utah	-	17	4	0.3	2.2	0.2	0.4	1.6	3.1	5.8	8.6	0.1	0.3	2.5
Pacific Division:													
Washington	-	101	37	3.5	43.4	3.1	5.7	34.8	84.4	136.5	220.6	2.3	FF	(D)
Oregon	-	75	31	4.4	50.6	3.8	7.3	40.5	98.8	173.8	271.2	3.7	4.4	60.8
California	E1	342	107	9.0	105.2	7.6	14.9	81.8	206.5	375.5	576.4	12.4	8.4	130.1
INDUSTRY 2434, WOOD KITCHEN CABINETS													
United States	**E1**	**2 583**	**510**	**46.2**	**481.1**	**38.7**	**72.3**	**352.3**	**868.8**	**730.6**	**1 590.8**	**36.7**	**38.8**	**486.7**
New England Division:													
Maine	-	6	1	0.2	2.2	0.1	0.2	0.9	2.6	2.4	4.9	(D)	(NA)	(NA)
New Hampshire	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Massachusetts	E1	46	6	0.6	5.6	0.4	0.7	3.4	8.9	6.3	15.1	(D)	0.4	6.1
Connecticut	E2	44	8	0.6	6.8	0.5	1.0	5.1	9.9	9.5	19.3	0.2	0.3	4.6
Middle Atlantic Division:													
New York	E2	133	21	1.9	19.1	1.5	2.8	13.9	32.5	22.7	55.0	0.7	2.1	25.5
New Jersey	-	77	13	1.4	15.3	1.2	2.4	10.2	28.6	24.6	52.9	(D)	1.3	15.6
Pennsylvania	-	120	40	3.7	40.1	3.1	5.9	28.6	74.7	54.4	129.2	2.5	3.8	45.9
East North Central Division:													
Ohio	E1	66	15	1.1	11.1	0.9	1.8	8.5	18.0	14.2	31.8	0.6	0.9	9.6
Indiana	-	89	36	4.9	50.9	4.2	7.8	38.6	106.8	93.5	196.8	4.6	3.7	68.3
Illinois	E2	86	15	1.1	11.6	0.9	1.8	8.3	19.9	18.3	38.0	(D)	CC	(D)
Michigan	E1	52	14	1.2	13.8	1.0	1.9	9.9	26.9	26.4	53.2	(D)	0.9	13.8
Wisconsin	-	60	12	1.2	12.5	1.0	2.0	9.3	21.3	21.9	42.5	0.6	0.4	4.7
West North Central Division:													
Minnesota	E2	70	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	11.6
Iowa	-	15	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Missouri	E3	52	10	0.7	7.3	0.6	1.1	5.3	12.3	9.4	21.7	0.4	0.4	2.9
Nebraska	E1	16	3	0.4	4.4	0.3	0.6	3.3	11.9	10.5	21.9	0.3	0.3	4.1
Kansas	E1	28	7	0.4	4.2	0.4	0.7	3.1	6.4	5.7	12.9	0.5	0.3	3.4

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2434, WOOD KITCHEN CABINETS—Con.														
South Atlantic Division:														
Maryland	E1	28	6	0.4	4.7	0.4	0.7	3.3	7.3	5.2	12.3	0.5	0.7	7.7
Virginia	–	45	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West Virginia	–	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
North Carolina	–	49	7	1.1	11.2	1.0	1.7	7.8	21.7	16.8	39.2	0.4	1.2	15.9
South Carolina	E2	26	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Georgia	–	70	6	0.8	7.4	0.7	1.3	5.6	12.0	13.5	25.7	0.4	EE	(D)
Florida	E2	264	41	2.9	25.8	2.4	4.2	18.6	46.9	32.2	78.5	4.9	FF	(D)
East South Central Division:														
Kentucky	–	24	6	0.7	7.3	0.6	1.1	5.3	14.0	11.7	25.3	0.3	0.7	11.0
Tennessee	E1	80	14	1.0	8.5	0.7	1.3	5.9	19.6	19.9	39.0	0.9	CC	(D)
Alabama	E2	51	11	0.7	5.8	0.6	1.1	4.1	12.6	9.1	21.4	0.4	BB	(D)
Mississippi	–	21	4	0.5	3.3	0.4	0.6	2.1	5.8	5.7	12.0	0.3	0.6	6.8
West South Central Division:														
Arkansas	E1	24	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.7
Louisiana	E3	27	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.9
Oklahoma	E3	20	5	0.4	3.4	0.3	0.5	2.1	6.5	5.1	11.5	0.3	0.2	2.8
Texas	E2	136	31	2.4	19.9	2.0	3.6	14.8	34.5	31.4	65.5	2.2	2.4	18.9
Mountain Division:														
Idaho	E2	16	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Colorado	–	28	6	0.8	7.8	0.7	1.1	6.4	11.0	14.0	24.8	0.4	0.6	7.4
New Mexico	E1	17	3	0.2	1.4	0.1	0.2	1.1	2.4	1.6	4.0	0.1	(NA)	(NA)
Arizona	–	43	10	0.8	7.9	0.7	1.4	6.0	9.1	12.8	21.6	0.3	0.6	6.2
Utah	E4	39	10	0.7	6.6	0.6	1.0	4.7	11.0	9.3	20.3	0.9	0.4	4.2
Nevada	E2	13	3	0.3	2.8	0.2	0.4	2.3	4.4	3.9	8.3	0.1	AA	(D)
Pacific Division:														
Washington	–	71	16	1.6	22.0	1.4	2.6	16.0	34.5	30.0	66.1	1.0	1.3	14.4
Oregon	–	64	15	1.3	12.5	1.1	2.0	10.4	23.6	27.5	50.4	2.8	BB	(D)
California	E1	438	72	5.3	71.9	4.4	8.8	52.7	117.2	80.8	196.7	3.9	4.3	63.4
INDUSTRY 2435, HARDWOOD VENEER AND PLYWOOD														
United States	–	**321**	**227**	**22.3**	**211.5**	**19.1**	**37.9**	**162.0**	**420.4**	**860.4**	**1 272.3**	**29.6**	**25.1**	**340.8**
New England Division:														
Maine	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Vermont	–	4	4	0.6	4.9	0.6	1.0	4.1	8.6	18.7	27.0	(D)	CC	(D)
Middle Atlantic Division:														
New York	E3	12	4	0.3	3.1	0.3	0.6	2.5	5.3	5.3	10.5	0.2	CC	(D)
Pennsylvania	–	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.5
East North Central Division:														
Ohio	–	3	2	0.2	2.2	0.2	0.3	1.9	7.7	8.5	16.0	(D)	AA	(D)
Indiana	–	27	22	2.7	25.3	2.3	4.9	18.0	47.8	59.3	106.5	5.6	2.3	30.0
Illinois	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Michigan	–	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.3
Wisconsin	–	20	16	2.2	18.8	1.9	3.8	15.2	37.4	56.0	92.2	1.2	EE	(D)
South Atlantic Division:														
Maryland	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Virginia	–	23	15	1.4	13.8	1.2	2.4	10.3	29.1	118.7	148.0	1.9	2.0	33.3
West Virginia	–	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.1
North Carolina	–	62	47	3.7	29.5	3.3	6.6	23.1	51.7	79.6	131.4	3.5	3.8	42.4
South Carolina	–	22	17	1.6	12.7	1.4	2.7	9.5	21.8	59.0	80.1	(D)	2.0	19.0
Georgia	–	15	14	1.0	9.3	0.9	1.7	7.0	37.5	64.5	99.1	0.7	EE	(D)
Florida	–	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	8.6
East South Central Division:														
Kentucky	–	5	4	0.5	5.1	0.4	0.9	3.3	10.3	10.2	20.2	1.2	0.6	7.9
Tennessee	–	9	7	0.5	4.0	0.4	0.8	2.9	6.5	8.9	15.4	0.2	0.9	14.0
Alabama	E2	15	8	0.7	5.2	0.6	1.2	3.9	10.5	8.6	19.2	0.2	0.9	7.4
Mississippi	–	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	5.9
West South Central Division:														
Arkansas	–	10	7	0.5	4.1	0.4	0.8	3.2	9.2	20.9	30.5	(D)	AA	(D)
Louisiana	–	8	6	0.3	2.8	0.3	0.5	1.7	4.1	29.0	33.3	0.2	AA	(D)
Pacific Division:														
Washington	–	11	5	0.8	11.7	0.7	1.3	10.0	18.9	41.5	60.5	0.5	0.9	18.9
Oregon	–	11	6	1.5	23.0	1.2	2.3	17.3	36.6	85.0	120.2	1.5	EE	(D)
California	–	17	10	1.0	11.2	0.8	1.5	9.0	25.2	71.1	96.0	1.2	1.2	26.0
INDUSTRY 2436, SOFTWOOD VENEER AND PLYWOOD														
United States	–	**256**	**224**	**46.2**	**634.6**	**41.9**	**89.4**	**556.9**	**1 583.7**	**2 231.1**	**3 804.8**	**105.6**	**43.7**	**935.4**
Middle Atlantic Division:														
New York	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Virginia	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
North Carolina	–	10	7	1.1	12.5	1.0	2.1	10.4	38.7	49.1	87.6	6.4	1.0	16.1
South Carolina	–	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Georgia	–	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	22.3
Florida	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2436, SOFTWOOD VENEER AND PLYWOOD—Con.														
East South Central Division:														
Alabama	-	10	9	2.2	23.3	1.9	4.4	18.7	59.7	83.8	143.2	5.3	EE	(D)
Mississippi	-	8	8	1.7	20.3	1.5	3.8	17.6	83.9	91.3	174.6	8.1	EE	(D)
West South Central Division:														
Arkansas	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	39.0
Louisiana	-	12	12	3.0	31.4	2.7	6.0	27.0	100.1	121.7	221.7	7.4	2.2	52.6
Oklahoma	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Texas	-	10	9	3.5	39.6	3.2	7.5	32.0	126.7	124.5	250.2	7.0	EE	(D)
Mountain Division:														
Montana	-	5	5	2.0	30.4	1.8	3.4	26.8	64.0	72.1	138.2	1.6	CC	(D)
Idaho	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Pacific Division:														
Washington	-	32	27	5.4	79.8	4.9	9.8	69.8	170.1	246.1	413.8	13.7	FF	(D)
Oregon	-	111	102	19.2	288.8	17.6	36.0	261.6	634.4	1 069.7	1 696.9	32.3	19.8	443.1
California	-	16	11	1.6	24.5	1.5	3.0	21.8	46.4	71.3	117.7	2.8	2.5	42.1
INDUSTRY 2439, STRUCTURAL WOOD MEMBERS, N.E.C.														
United States	-	**656**	**225**	**13.8**	**147.0**	**11.0**	**20.8**	**101.6**	**330.0**	**464.4**	**807.7**	**19.7**	**12.6**	**182.8**
Middle Atlantic Division:														
Pennsylvania	-	18	5	0.2	2.5	0.1	0.3	1.5	5.7	13.7	19.2	(D)	0.4	5.5
East North Central Division:														
Ohio	E1	32	14	0.7	6.1	0.5	1.0	4.1	17.0	23.5	40.0	1.1	CC	(D)
Indiana	-	19	8	0.5	6.0	0.4	0.8	3.9	13.1	16.5	29.5	0.9	0.5	8.3
Illinois	E1	16	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Michigan	-	34	17	0.9	10.4	0.7	1.3	7.0	21.4	25.7	46.8	1.5	0.7	11.9
Wisconsin	-	16	5	0.2	2.0	0.2	0.3	1.2	3.9	6.7	10.6	0.2	(NA)	(NA)
West North Central Division:														
Minnesota	-	12	6	0.5	5.0	0.4	0.8	3.7	8.6	14.3	22.7	0.3	BB	(D)
Missouri	-	16	3	0.2	1.6	0.1	0.5	1.1	4.0	3.7	7.6	(D)	(NA)	(NA)
Kansas	E1	6	2	0.2	1.8	0.1	0.2	1.3	5.9	5.7	11.6	0.2	(NA)	(NA)
South Atlantic Division:														
Virginia	E1	14	8	0.4	3.9	0.3	0.6	2.4	9.1	10.8	19.9	0.5	0.3	3.3
North Carolina	-	19	5	0.4	4.4	0.3	0.6	2.8	7.7	16.4	24.0	0.5	0.4	3.7
Georgia	-	19	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Florida	E1	71	24	1.3	11.1	1.0	1.9	7.5	21.6	32.8	54.1	1.2	1.3	16.2
East South Central Division:														
Tennessee	E1	15	5	0.2	1.7	0.1	0.2	0.9	5.1	3.9	8.9	0.1	BB	(D)
Alabama	E2	18	3	0.3	2.1	0.2	0.4	1.4	5.5	7.5	13.0	0.1	BB	(D)
West South Central Division:														
Arkansas	E1	13	3	0.3	3.2	0.2	0.5	2.1	5.6	16.1	21.8	0.6	AA	(D)
Texas	E1	20	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Mountain Division:														
Idaho	-	10	6	0.2	2.6	0.2	0.3	1.8	9.2	9.4	18.2	(D)	AA	(D)
Colorado	-	15	7	0.4	4.2	0.4	0.7	3.1	8.7	14.3	22.8	0.3	0.3	4.4
Arizona	-	12	4	0.3	3.1	0.2	0.4	2.6	4.7	9.7	14.2	0.3	0.3	3.9
Nevada	E4	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	-	33	12	0.8	9.1	0.6	1.1	6.1	17.9	29.6	46.9	1.2	CC	(D)
Oregon	-	28	13	1.0	13.3	0.9	1.6	10.4	38.0	59.5	95.6	3.5	CC	(D)
California	-	62	25	1.6	19.3	1.3	2.4	13.8	47.1	53.1	99.7	2.0	1.2	16.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Millwork (SIC 2431)	Wood kitchen cabinets (SIC 2434)	Hardwood veneer and plywood (SIC 2435)	Softwood veneer and plywood (SIC 2436)	Structural wood members, n.e.c. (SIC 2439)
Primary product specialization ratio[1]	percent	94	96	91	88	94
Coverage ratio[2]	do	94	96	93	91	93
All establishments	number	2 333	2 583	321	256	656
With 1 to 19 employees	do	1 641	2 073	94	32	431
With 20 to 99 employees	do	546	425	160	69	209
With 100 employees or more	do	146	85	67	155	16
All employees, average for year	1,000	68.6	46.2	22.3	46.2	13.8
Payroll for year, all employees	mil. dol.	742.2	481.1	211.5	634.6	147.0
Production workers:						
Average for year	1,000	55.6	38.7	19.1	41.9	11.0
March	do	53.1	35.4	18.2	41.2	8.5
May	do	56.1	37.5	19.2	41.4	11.1
August	do	59.6	40.3	19.7	42.6	12.3
November	do	57.8	40.9	19.3	42.5	11.1
Hours	millions	108.4	72.3	37.9	89.4	20.8
January to March	do	24.6	16.0	9.0	22.0	4.3
April to June	do	27.3	18.0	9.6	22.6	5.7
July to September	do	28.7	19.0	9.6	22.3	5.3
October to December	do	27.8	19.3	9.6	22.4	5.5
Wages	mil. dol.	542.0	352.3	162.0	556.9	101.6
Cost of materials, etc.	do	2 460.4	730.6	860.4	2 231.1	484.4
Materials, parts, containers, etc., consumed	do	2 239.4	677.4	765.3	2 084.8	450.9
Resales	do	175.3	24.7	70.2	15.1	26.1
Fuels consumed	do	10.0	7.0	8.2	48.8	2.8
Purchased electric energy	do	23.4	10.8	11.7	43.6	2.9
Contract work	do	12.3	10.6	5.1	38.8	1.7
Value of shipments, including resales	do	3 928.1	1 590.8	1 272.3	3 804.8	807.7
Value of resales	do	212.3	29.9	71.9	15.0	33.4
Value added by manufacture	do	1 497.9	868.8	420.4	1 583.7	330.0
Manufacturers' inventories:						
Beginning of year	do	545.3	187.2	176.1	229.2	70.5
Finished products	do	131.7	52.9	66.7	66.1	14.0
Work in process	do	153.2	43.8	19.0	45.2	9.0
Materials, supplies, fuel, etc.	do	260.5	90.4	90.4	118.0	47.5
End of year	do	605.0	212.3	197.7	242.6	87.3
Finished products	do	147.6	52.7	71.9	70.2	20.2
Work in process	do	167.3	52.5	22.3	51.0	9.5
Materials, supplies, fuel, etc.	do	290.0	107.0	103.5	121.4	57.7
Capital expenditures for plant and equipment	do	89.8	38.9	32.6	111.7	21.1
New capital expenditures	do	81.0	36.7	29.6	105.6	19.7
New buildings and other structures	do	27.6	11.3	3.7	10.6	5.4
New machinery and equipment	do	53.3	25.5	25.9	95.1	14.4
Used capital expenditures	do	8.9	2.2	3.0	6.0	1.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Millwork (SIC 2431)		Wood kitchen cabinets (SIC 2434)		Hardwood veneer and plywood (SIC 2435)		Softwood veneer and plywood (SIC 2436)		Structural wood members, n.e.c. (SIC 2439)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:										
Cost of purchased services for repair of--										
Buildings and other structures	7.4	5	(1.3)	16	(1.2)	78	2.6	1	(0.6)	35
Response coverage ratio[2] (percent)	67.4	(X)	60.0	(X)	62.1	(X)	60.1	(X)	61.2	(X)
Machinery	11.1	12	(6.3)	15	(8.0)	(A)	22.4	2	(3.5)	21
Response coverage ratio[2] (percent)	67.1	(X)	64.6	(X)	61.4	(X)	59.4	(X)	59.6	(X)
Cost of purchased communication services	(12.0)	25	3.5	12	1.9	(A)	3.7	1	(1.4)	17
Response coverage ratio[2] (percent)	60.1	(X)	61.6	(X)	60.6	(X)	61.6	(X)	62.2	(X)
Rental payments	24.7	6	18.0	9	4.8	11	4.7	9	5.5	11
Buildings and other structures	14.2	10	13.7	11	(3.4)	15	(1.4)	20	(2.2)	17
Machinery and equipment	10.4	8	4.3	10	1.4	6	3.2	8	3.3	13
Supplemental labor costs	123.4	2	72.1	3	35.6	3	148.0	1	22.4	6
Legal costs	71.1	2	39.2	3	19.0	3	67.4	1	13.0	5
Voluntary costs	52.3	3	32.9	4	16.6	4	80.6	1	9.4	11
Gross value of depreciable assets:										
Buildings and other structures:										
Beginning of year	207.2	5	93.0	10	73.3	6	223.5	2	43.7	11
New capital expenditures	37.3	14	(14.2)	19	3.8	14	9.6	3	(5.0)	24
Used capital expenditures	(3.3)	18	-	(X)	(0.4)	19	0.5	1	(0.1)	49
Retirements	7.2	12	2.8	14	1.7	9	16.8	2	(1.3)	24
End of year	240.5	4	104.5	9	75.8	6	216.8	2	47.5	10
Machinery and equipment:										
Beginning of year	338.3	4	148.7	4	185.3	5	1,031.6	2	82.5	7
New capital expenditures	60.5	9	30.8	10	26.1	5	94.9	3	16.3	14
Automobiles, trucks, etc., for highway use[3]	(5.9)	(A)	(4.4)	(A)	(0.9)	(A)	(1.7)	(A)	(3.0)	(A)
Computers and peripheral data processing equipment[3]	(2.2)	(A)	(0.3)	(A)	(0.4)	(A)	(0.5)	(A)	(Z)	(A)
All other[3]	(28.9)	69	(11.5)	(A)	(13.5)	(A)	(73.8)	27	(6.4)	(A)
New machinery and equipment, n.s.k.[4]	(23.5)	85	(14.6)	(A)	(11.2)	(A)	(18.9)	(A)	(6.9)	(A)
Used capital expenditures	6.2	10	(1.0)	21	(2.3)	36	4.9	6	(0.7)	22
Retirements	22.2	9	(10.4)	27	8.3	8	36.3	5	(6.2)	17
End of year	382.8	4	170.0	4	205.4	5	1,095.1	2	93.3	6
Total gross value of depreciable assets:										
Beginning of year	545.5	4	241.7	5	258.6	5	1,255.1	2	126.2	7
New capital expenditures	97.8	10	45.0	11	29.8	5	104.6	3	(21.3)	15
Used capital expenditures	9.5	9	(1.0)	20	(2.7)	31	5.4	6	(0.8)	24
Retirements	29.3	8	(13.1)	21	10.0	8	53.2	4	(7.5)	16
End of year	623.5	3	274.6	4	281.2	5	1,312.0	2	140.9	6
Depreciation charges during 1977	50.5	7	22.3	7	22.8	7	96.0	2	11.9	7
Buildings and other structures	13.2	12	5.6	14	4.0	7	11.7	2	2.6	11
Machinery and equipment	37.3	6	16.7	7	18.8	7	84.3	2	9.4	8

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2431, MILLWORK												
Total	**E1**	**2 333**	**68.6**	**742.2**	**56.6**	**108.4**	**542.0**	**1 497.9**	**2 460.4**	**3 928.1**	**81.0**	**505.0**
Establishments with an average of—												
1 to 4 employees	E8	892	1.6	16.6	1.6	2.6	12.1	28.7	47.4	79.2	3.3	11.8
5 to 9 employees	E4	398	2.6	29.0	2.2	4.4	21.0	55.3	80.8	135.4	3.5	18.7
10 to 19 employees	E1	351	4.9	53.7	3.9	7.5	37.2	100.0	154.5	252.9	3.7	33.0
20 to 49 employees	E1	378	11.6	124.8	9.1	17.4	83.9	256.7	413.0	663.8	12.2	97.6
50 to 99 employees	-	168	11.9	124.1	9.7	18.7	87.9	254.5	511.9	759.8	14.8	117.8
100 to 249 employees	-	108	16.2	160.6	13.3	25.6	115.3	329.5	618.9	935.6	17.6	154.2
250 to 499 employees	-	27	9.5	102.1	8.1	16.0	81.6	223.7	289.2	506.1	11.0	82.7
500 to 999 employees	-	9	(10.4)	(131.2)	(8.8)	(16.1)	(103.1)	(249.5)	(344.6)	(595.5)	(14.8)	(89.0)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	894	2.5	25.2	2.3	4.0	18.3	46.0	72.7	118.7	2.0	18.0
INDUSTRY 2434, WOOD KITCHEN CABINETS												
Total	**E1**	**2 583**	**46.2**	**481.1**	**38.7**	**72.3**	**352.3**	**868.8**	**730.6**	**1 590.8**	**36.7**	**212.3**
Establishments with an average of—												
1 to 4 employees	E7	1 197	2.2	22.1	2.2	3.4	16.4	45.5	35.5	81.5	5.1	10.6
5 to 9 employees	E2	472	3.2	34.4	2.7	5.2	25.5	57.6	48.9	106.0	2.7	11.7
10 to 19 employees	E1	404	5.4	55.0	4.4	8.2	40.3	95.9	76.3	171.0	3.8	19.3
20 to 49 employees	E1	321	9.6	100.5	7.9	14.9	71.1	164.9	140.5	303.9	7.0	38.0
50 to 99 employees	E1	104	7.5	76.5	6.1	11.5	55.4	128.2	103.2	228.3	4.6	31.5
100 to 249 employees	-	64	10.1	103.0	8.3	15.8	75.6	204.0	170.8	373.0	6.6	47.4
250 to 499 employees	-	17	5.9	64.5	5.2	9.5	49.6	121.3	109.9	229.9	5.5	41.6
500 to 999 employees	-	4	2.3	25.2	2.0	3.8	18.5	51.2	45.5	97.2	1.5	12.1
Covered by administrative records[2]	E0	1 060	2.5	24.8	2.4	3.9	18.3	47.8	39.4	87.1	2.0	12.1
INDUSTRY 2435, HARDWOOD VENEER AND PLYWOOD												
Total	**-**	**321**	**22.3**	**211.5**	**19.1**	**37.9**	**162.0**	**420.4**	**860.4**	**1 272.3**	**29.6**	**197.7**
Establishments with an average of—												
1 to 4 employees	E6	36	(Z)	0.5	(Z)	0.1	0.4	0.2	1.8	3.0	(Z)	0.5
5 to 9 employees	E8	19	0.1	1.3	0.1	0.2	1.1	2.7	3.0	5.7	(Z)	1.0
10 to 19 employees	E6	39	0.5	5.4	0.4	0.7	4.2	13.5	12.9	26.3	0.3	4.3
20 to 49 employees	-	76	2.6	23.1	2.3	4.5	16.9	56.9	92.9	149.9	1.7	20.2
50 to 99 employees	-	84	6.0	51.2	5.3	10.5	38.4	91.5	203.6	296.1	4.5	38.4
100 to 249 employees	-	48	6.9	60.1	5.9	11.9	46.3	104.1	211.6	312.5	12.9	49.0
250 to 499 employees	-	19	6.1	69.8	5.2	10.1	54.8	151.5	334.7	479.0	10.2	84.3
Covered by administrative records[2]	E0	65	0.5	5.1	0.4	0.7	4.0	11.6	13.0	24.6	0.1	4.2
INDUSTRY 2436, SOFTWOOD VENEER AND PLYWOOD												
Total	**-**	**256**	**46.2**	**634.6**	**41.9**	**89.4**	**556.9**	**1 583.7**	**2 231.1**	**3 804.8**	**105.6**	**242.6**
Establishments with an average of—												
1 to 4 employees	E8	15	(Z)	0.1	(Z)	(Z)	0.1	(S)	0.4	0.8	(Z)	(Z)
5 to 9 employees	E3	8	0.1	0.6	0.1	0.1	0.5	3.2	3.0	6.0	0.1	0.7
10 to 19 employees	E6	9	0.1	1.5	0.1	0.2	1.2	4.7	4.1	8.8	0.2	0.5
20 to 49 employees	-	27	0.9	10.7	0.8	1.6	9.2	20.5	55.4	77.3	1.8	7.0
50 to 99 employees	-	42	3.1	41.6	2.8	5.6	36.3	86.9	192.2	278.0	9.4	15.2
100 to 249 employees	-	81	14.2	207.2	12.8	27.0	182.7	518.8	787.3	1 301.1	32.9	67.2
250 to 499 employees	-	63	20.5	275.6	18.6	40.3	242.1	708.8	901.7	1 605.1	49.9	106.2
500 to 999 employees	-	10	(7.3)	(97.2)	(6.7)	(14.6)	(84.8)	(241.7)	(287.1)	(527.8)	(11.4)	(45.9)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	17	0.1	1.8	0.1	0.3	1.6	4.1	5.7	9.8	0.3	0.6
INDUSTRY 2439, STRUCTURAL WOOD MEMBERS, N.E.C.												
Total	**-**	**556**	**13.8**	**147.0**	**11.0**	**20.8**	**101.6**	**330.0**	**484.4**	**807.7**	**19.7**	**87.3**
Establishments with an average of—												
1 to 4 employees	E7	204	0.4	3.9	0.3	0.5	2.6	8.8	13.2	22.1	0.7	2.3
5 to 9 employees	E3	94	0.6	6.5	0.5	0.9	4.2	14.9	22.5	37.2	1.0	3.7
10 to 19 employees	E1	133	1.8	19.1	1.4	2.6	12.5	42.8	63.3	105.6	2.7	10.2
20 to 49 employees	-	150	4.8	47.4	3.8	7.0	32.3	106.5	155.3	260.1	5.8	28.0
50 to 99 employees	-	59	4.0	44.8	3.2	6.5	31.6	97.4	139.7	235.3	5.0	25.7
100 to 249 employees	-	16	2.2	25.3	1.7	3.3	18.5	59.6	90.4	147.4	4.6	17.5
Covered by administrative records[2]	E0	176	0.5	5.0	0.4	0.7	3.2	10.9	15.4	26.3	0.6	2.9

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2431	**Millwork:**										
	Entire industry	2 333	68.6	742.2	56.6	108.4	542.0	1 497.9	2 460.4	3 928.1	81.0
	Establishments with 75 percent specialization or more	2 148	59.6	644.6	49.4	94.4	471.7	1 319.8	2 178.8	3 473.1	72.5
24311	Wood window units:										
	Establishments with this product class primary	88	13.6	166.8	10.9	20.7	120.8	355.9	485.6	836.9	18.9
	Establishments with 75 percent specialization or more in class	36	5.8	79.2	4.8	8.7	59.5	187.4	238.5	427.6	8.6
24312	Wood window sash:										
	Establishments with this product class primary	21	1.1	12.3	1.0	1.9	9.5	21.2	38.9	58.7	0.7
	Establishments with 75 percent specialization or more in class	6	0.2	2.0	0.2	0.3	1.5	2.7	7.3	9.9	0.1
24313	Wood window and door frames:										
	Establishments with this product class primary	56	3.8	39.9	3.2	6.4	30.8	91.6	162.2	252.1	3.3
	Establishments with 75 percent specialization or more in class	16	1.0	9.8	0.9	1.8	7.9	16.8	45.3	61.7	2.0
24314	Wood doors, interior and exterior:										
	Establishments with this product class primary	230	12.3	140.4	9.8	19.1	99.0	274.2	551.2	817.1	11.5
	Establishments with 75 percent specialization or more in class	124	6.8	74.6	5.5	10.7	54.3	161.5	339.0	496.8	6.4
24315	Other wood doors, including garage, screen, etc.:										
	Establishments with this product class primary	102	7.5	69.7	6.3	11.9	50.6	162.5	283.2	441.9	7.4
	Establishments with 75 percent specialization or more in class	69	3.3	30.7	2.8	5.1	22.1	70.3	124.9	194.2	3.7
24316	Unfinished wood moldings:										
	Establishments with this product class primary	131	7.9	87.3	6.9	13.4	69.3	165.8	357.1	516.9	9.7
	Establishments with 75 percent specialization or more in class	88	5.2	55.5	4.5	8.7	44.2	109.0	262.4	368.5	7.2
24317	Prefinished wood moldings (made from purchased moldings):										
	Establishments with this product class primary	29	1.5	14.1	1.2	2.3	10.1	34.5	52.6	86.9	1.7
	Establishments with 75 percent specialization or more in class	18	0.6	5.6	0.5	1.0	4.0	12.1	21.4	33.3	0.5
24318	Other millwork:										
	Establishments with this product class primary	228	7.7	78.5	6.1	11.6	55.4	137.0	163.1	295.3	11.5
	Establishments with 75 percent specialization or more in class	148	4.5	43.3	3.5	6.7	30.7	78.8	81.7	160.4	9.5
2434	**Wood kitchen cabinets:**										
	Entire industry	2 583	46.2	481.1	38.7	72.3	352.3	868.8	730.6	1 590.8	36.7
	Establishments with 75 percent specialization or more	2 438	42.9	442.6	36.1	67.3	325.9	811.9	679.4	1 484.9	34.6
24341	Wood kitchen cabinets, stock line:										
	Establishments with this product class primary	217	18.1	186.9	15.5	29.1	142.3	374.1	346.6	718.5	14.4
	Establishments with 75 percent specialization or more in class	167	16.2	168.9	13.9	26.2	129.7	345.2	315.0	658.4	13.3
24342	Wood kitchen cabinets, custom:										
	Establishments with this product class primary	667	15.8	171.7	12.7	24.4	121.1	279.0	212.2	487.0	13.1
	Establishments with 75 percent specialization or more in class	495	11.9	128.7	9.6	18.4	90.8	211.0	160.1	368.1	11.0
24343	Vanities and other cabinetwork:										
	Establishments with this product class primary	120	2.8	29.7	2.3	4.3	19.9	48.8	39.5	86.6	1.7
	Establishments with 75 percent specialization or more in class	63	1.5	14.7	1.2	2.3	10.5	25.5	20.2	44.5	0.7
2435	**Hardwood veneer and plywood:**										
	Entire industry	321	22.3	211.5	19.1	37.9	162.0	420.4	860.4	1 272.3	29.6
	Establishments with 75 percent specialization or more	282	17.7	163.7	15.3	30.4	125.5	328.2	698.8	1 020.0	18.2
24351	Hardwood plywood:										
	Establishments with this product class primary	83	9.8	97.9	8.5	16.8	76.9	174.0	339.5	505.2	9.0
	Establishments with 75 percent specialization or more in class	70	7.4	68.6	6.5	13.0	54.2	111.4	226.9	335.1	(D)
24352	Prefinished hardwood plywood (made from purchased moldings):										
	Establishments with this product class primary	24	2.3	24.7	1.7	3.3	16.5	70.1	312.0	383.3	9.7
	Establishments with 75 percent specialization or more in class	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24353	Hardwood plywood products:										
	Establishments with this product class primary	20	1.4	12.5	1.2	2.4	9.8	29.6	58.7	88.1	1.4
	Establishments with 75 percent specialization or more in class	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24354	Hardwood veneer, not reinforced or backed:										
	Establishments with this product class primary	95	7.7	65.2	6.8	13.7	49.9	123.1	126.9	247.8	9.1
	Establishments with 75 percent specialization or more in class	78	5.4	44.7	4.9	9.8	34.4	80.5	79.1	157.9	5.2
2436	**Softwood veneer and plywood:**										
	Entire industry	256	46.2	634.6	41.9	89.4	556.9	1 583.7	2 231.1	3 804.8	105.6
	Establishments with 75 percent specialization or more	217	36.2	501.2	33.0	70.0	441.6	1 299.0	1 812.8	3 091.5	85.8
24361	Softwood plywood, interior type:										
	Establishments with this product class primary	90	21.0	281.9	19.0	42.3	244.6	845.2	1 017.2	1 856.9	50.7
	Establishments with 75 percent specialization or more in class	64	14.4	192.0	13.0	29.2	165.3	627.0	743.4	1 367.5	43.3
24362	Softwood plywood, exterior type:										
	Establishments with this product class primary	68	19.1	266.9	17.6	36.1	239.5	583.4	828.3	1 403.2	38.4
	Establishments with 75 percent specialization or more in class	39	9.1	129.3	8.3	16.8	114.9	254.6	400.3	651.3	20.6
24363	Softwood plywood products:										
	Establishments with this product class primary	13	1.0	14.4	0.8	1.7	11.0	31.2	64.3	93.5	2.0
	Establishments with 75 percent specialization or more in class	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24364	Softwood veneer, not reinforced or backed:										
	Establishments with this product class primary	51	4.7	66.9	4.2	8.5	57.9	115.9	309.2	429.8	14.2
	Establishments with 75 percent specialization or more in class	39	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2439	**Structural wood members, n.e.c.:**										
	Entire industry	656	13.8	147.0	11.0	20.8	101.6	330.0	484.4	807.7	19.7
	Establishments with 75 percent specialization or more	610	12.1	129.9	9.6	18.2	89.2	298.7	422.5	715.4	17.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2431	Millwork	1977	3,928.1	3,454.3	238.3	235.5	94	3,693.3	3,454.3	239.0	94
		1972	2,426.8	2,103.1	146.0	177.7	94	2,229.7	2,103.1	126.6	94
		1967	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2434	Wood kitchen cabinets	1977	1,590.8	1,498.2	55.5	37.1	96	1,563.2	1,498.2	65.0	96
		1972	897.2	825.9	39.7	31.6	95	864.5	825.9	38.6	96
		1967	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2435	Hardwood veneer and plywood	1977	1,272.3	1,083.9	101.0	87.4	91	1,160.0	1,083.9	76.1	93
		1972	911.8	804.0	80.1	27.7	91	875.3	804.0	71.3	92
		1967	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2436	Softwood veneer and plywood	1977	3,804.8	3,271.8	439.6	93.5	88	3,582.3	3,271.8	310.5	91
		1972	2,011.5	1,735.0	241.9	34.6	88	1,939.6	1,735.0	204.6	89
		1967	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2439	Structural wood members, n.e.c.	1977	807.7	728.9	43.4	35.4	94	781.7	728.9	52.8	93
		1972	456.0	411.2	22.6	22.2	95	455.5	411.2	44.3	90
		1967	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(NA) Not available. n.e.c. Not elsewhere classified.

Table 5c. **Industry-Product Analysis — Shipments by Product Class and Industry: 1977**

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Millwork (SIC 2431)	Wood kitchen cabinets (SIC 2434)	Hardwood veneer and plywood (SIC 2435)	Softwood veneer and plywood (SIC 2436)	Structural wood members, n.e.c. (SIC 2439)	Other industries
	Total	(X)	3,928.1	1,590.8	1,272.3	3,804.8	807.7	(X)
	Primary products	(X)	3,454.3	1,498.2	1,083.9	3,271.8	728.9	(X)
	Secondary products	(X)	238.3	55.5	101.0	439.6	43.4	(X)
	Miscellaneous receipts	(X)	235.5	37.1	87.4	93.5	35.4	(X)
2431-	Millwork	3,693.3	3,454.3	30.3	22.1	(D)	(D)	173.0
24311	Wood window units	609.3	605.3	.6	-	-	1.3	2.1
24312	Wood window sash	95.4	93.6	(D)	-	-	-	(D)
24313	Wood window and door frames	264.6	239.3	(D)	-	-	(D)	(D)
24314	Wood doors, interior and exterior	707.5	669.9	6.2	(D)	-	(D)	15.0
24315	Other wood doors, including garage, screen, etc	479.1	439.1	(D)	(D)	-	(D)	38.5
24316	Wood moldings (standard)	569.1	481.7	(D)	(D)	-	(D)	79.6
24317	Prefinished wood moldings (standard) made from purchased moldings	75.0	68.9	.4	(D)	-	(D)	(D)
24318	Other millwork products	288.3	270.3	11.2	(D)	-	.4	(D)
24310	Millwork products, n.s.k	605.1	586.3	1.4	-	(D)	(D)	11.2
2434-	Wood kitchen cabinets	1,563.2	34.0	1,498.2	-	-	.2	30.9
24341	Wood kitchen cabinets, stock line	689.2	12.5	666.1	-	-	-	10.6
24342	Wood kitchen cabinets, custom	433.2	15.5	415.0	-	-	(D)	(D)
24343	Vanities and other cabinetwork	146.4	5.8	127.8	-	-	(D)	(D)
24340	Wood kitchen cabinets, n.s.k	294.5	.1	289.3	-	-	-	5.1
2435-	Hardwood veneer and plywood	1,160.0	(D)	(D)	1,083.9	30.3	-	37.0
24351	Hardwood plywood	455.8	(D)	(D)	403.7	(D)	-	23.5
24352	Prefinished hardwood plywood (made from purchased plywood)	383.8	(D)	-	376.4	(D)	-	(D)
24353	Hardwood plywood type products	60.8	(D)	(D)	55.7	(D)	-	(D)
24354	Hardwood veneer, not reinforced or backed	213.7	(D)	-	203.2	-	-	(D)
24350	Hardwood veneer and plywood, n.s.k	46.0	.1	-	44.9	-	-	.9
2436-	Softwood veneer and plywood	3,582.3	(D)	-	26.6	3,271.8	(D)	281.3
24361	Softwood plywood, interior type	1,828.0	-	-	1.1	1,675.2	-	151.8
24362	Softwood plywood, exterior type	1,226.7	-	-	(D)	1,147.6	-	(D)
24363	Softwood plywood type products	102.6	-	-	(D)	(D)	-	(D)
24364	Softwood veneer, not reinforced or backed	404.5	(D)	-	(D)	(D)	-	(D)
24360	Softwood veneer and plywood, n.s.k	20.6	(D)	-	.3	19.3	(D)	(D)
24390	Fabricated structural wood products	781.7	(D)	(D)	-	-	728.9	44.0
	Other shipments by 4-digit product group:							
2411-	Logging products and contract logging	(X)	(D)	(D)	7.2	(D)	-	(X)
2421-	Sawmill and planing mill products	(X)	(D)	(D)	(D)	(D)	(D)	(X)
2426-	Hardwood dimension and flooring	(X)	(D)	(D)	(D)	(D)	(D)	(X)
2441-	Nailed wood boxes and shook	(X)	(D)	(D)	-	(D)	(D)	(X)
2452-	Prefabricated wood buildings	(X)	(D)	-	-	-	16.9	(X)
2492-	Particleboard	(X)	(D)	-	-	(D)	-	(X)
2499-	Wood products, n.e.c	(X)	(D)	(D)	(D)	6.3	(D)	(X)
2511-	Wood household furniture	(X)	(D)	1.5	-	-	-	(X)
2514-	Metal household furniture	(X)	(D)	(D)	-	-	-	-
2521-	Wood office furniture	(X)	(D)	(D)	-	-	-	(X)
2531-	Public building and related furniture	(X)	(D)	-	-	-	-	(X)
2541-	Wood partitions and fixtures	(X)	(D)	(D)	(D)	-	(D)	(X)
2649-	Converted paper products, n.e.c	(X)	(D)	-	-	-	-	(X)
3079-	Miscellaneous plastics products	(X)	18.9	4.8	-	-	-	(X)
3231-	Products of purchased glass	(X)	(D)	(D)	-	-	-	(X)
3429-	Hardware, n.e.c	(X)	13.9	-	-	-	(D)	(X)
3442-	Metal doors, sash, and trim	(X)	(D)	(D)	-	-	(D)	(X)
3662-	Radio and TV communication equipment	(X)	(D)	-	-	-	-	(X)
	Miscellaneous receipts:							
93000 00	Contract work	(X)	8.1	2.6	14.1	3.3	1.1	(X)
99980 13	Sales of scrap and refuse	(X)	5.8	.5	-	.7	.1	(X)
99980 15	Bark	(X)	-	-	(D)	1.1	-	(X)
99980 17	Sales of mill residues other than bark (including sawdust, shavings, slabs, cores, fuelwood, chipper rejects, cull pieces, etc.)	(X)	.1	-	(D)	71.8	-	(X)
99980 98	Other miscellaneous receipts, including receipts for repair work, etc	(X)	7.3	2.5	.7	1.4	.4	(X)
99980 00	Other miscellaneous receipts, n.s.k	(X)	2.0	1.5	-	.1	.5	(X)
99989 00	Resales	(X)	212.3	29.9	71.9	15.0	33.4	(X)

See footnotes at end of table.

Table 5c. **Industry-Product Analysis — Shipments by Product Class and Industry: 1977** - Con.

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Industry and miscellaneous receipts	Other industries	1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:			Other industries with over $5 million shipments of primary products--Con.	
2431-	2421 Sawmills and planing mills, general	(D)	2435-	2421 Sawmills and planing mills, general	(D)
	2426 Hardwood dimension and flooring	7.9		2499 Wood products, n.e.c	(D)
	2541 Wood partitions and fixtures	(D)		2521 Wood office furniture	(D)
	3079 Miscellaneous plastics products	13.3	2436-	2411 Logging camps and logging contractors	(D)
	3442 Metal doors, sash, and trim	23.1		2421 Sawmills and planing mills, general	(D)
				2631 Paperboard mills	14.5
2434-	2514 Metal household furniture	(D)	2439-	2421 Sawmills and planing mills, general	22.0
	2541 Wood partitions and fixtures	10.4		2452 Prefabricated wood buildings	15.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified.
n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972**

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	MILLWORK						
2431- --	Total		(NA)	(X)	3,693.3	(X)	2,229.7
24311 --	Wood window units		(NA)	(X)	609.3	(X)	279.4
24311 33	Double hung	Thousands	69	*5,194.6	256.5	4,281.1	118.2
24311 34	Awning		25	*611.5	26.8	1,561.7	24.6
24311 37	Casement		52	3,355.4	236.4	2,346.2	84.6
24311 41	Horizontal sliding		27	611.8	35.4	1,613.3	44.5
24311 45	All other, including single hung	Thousands	29	(S)	36.9		
24311 00	Wood window units, n.s.k		(NA)	(X)	17.3	(X)	7.5
24312 --	Wood sash, including combination screen and storm sash, but excluding window screens and window units		(NA)	(X)	95.4	(X)	60.7
	Wood sash:						
24312 11	Knock-down (k.d.)	Thousands	10	3,132.4	25.6	4,940.2	16.1
24312 13	Open		8	*1,394.0	14.2	1,685.9	7.9
24312 15	Glazed		24	2,533.7	40.3	3,821.0	29.0
24312 65	Storm sash, wood, including combination screen and storm sash	Thousands	13	**530.5	11.0	433.8	4.6
24312 00	Wood sash, including combination screen and storm sash, but excluding window screens and window units, n.s.k		(NA)	(X)	4.3	(X)	3.1
24313 --	Wood window and door frames and door frames shipped in door units		(NA)	(X)	264.6	(X)	147.0
24313 13	Window frames	Thousands	42	**3,626.5	94.4	(S)	50.9
24313 15	Door frames	Thousands	95	(S)	150.2	(S)	94.0
24313 00	Wood window and door frames, n.s.k		(NA)	(X)	20.0	(X)	2.1
24314 --	Wood doors, interior and exterior, including those shipped with glazed sections and doors shipped in door units		(NA)	(X)	707.5	(X)	527.6
	Panel type, including french doors:						
24314 11	Douglas fir	Thousands	34	*3,070.6	114.5	3,641.8	66.8
24314 13	Western pines		32	**1,527.5	63.1	1,521.1	38.7
24314 19	Other species		19	**618.4	24.1	801.5	14.1
	Flush type, hollow core:						
24314 31	Softwood faces		18	(S)	20.6	2,721.6	37.2
24314 33	Hardwood faces, including lauan, birch, oak, etc		93	**19,968.2	222.4	26,488.1	197.1
24314 35	Hardboard faces		44	(S)	57.5	(S)	37.3
24314 37	Other faces		17	(S)	11.7		
	Flush type, solid core:						
	Hardwood faces, including lauan, birch, oak, etc:						
24314 41	Solid wood core		29	**1,048.5	30.8	2,712.8	52.5
24314 45	Solid composition core		53	*3,177.4	76.4	1,350.6	30.0
24314 46	Hardboard faces		16	**341.0	6.8	(S)	15.0
24314 48	Softwood and other faces	Thousands	17	(S)	11.7		
24314 00	Wood doors, interior and exterior, n.s.k		(NA)	(X)	67.9	(X)	38.9
24315 --	Other wood doors, including garage, screen, storm, and combination screen and storm, and louvre		(NA)	(X)	479.1	(X)	193.2
24315 51	Combination screen and storm doors, wood	Thousands	8	(S)	7.1	467.3	9.3
24315 61	Garage doors	1,000 openings	36	*1,965.1	202.0	1,304.3	82.4
24315 71	Screen doors	Thousands	11	*531.4	8.1	913.3	8.4
24315 81	Louvre doors		30	(S)	29.3	5,234.3	44.7
24315 85	Sliding patio doors		29	**401.5	96.7	(X)	38.4
24315 84	Bi-fold doors	Thousands	45	(S)	76.6		
24315 98	Other wood doors, including storm, cabinet, toilet, grain, etc		29	(X)	44.7		
24315 00	Other wood doors, n.s.k		(NA)	(X)	14.6	(X)	10.0
24316 --	Wood moldings (standard), except prefinished moldings made from purchased moldings		(NA)	(X)	569.1	(X)	406.8
	Softwood:						
24316 21	Pine	Mil. bd. ft.	111	*558.0	434.2	915.5	334.1
24316 31	Other softwood species		42	**54.0	38.1		
24316 51	Hardwood, including lauan	Mil. bd. ft.	65	(S)	65.9	143.6	66.6
24316 00	Wood moldings (standard), except prefinished moldings made from purchased moldings, n.s.k		(NA)	(X)	30.9	(X)	6.1
24317 --	Prefinished wood moldings (standard), made from purchased moldings		(NA)	(X)	75.0	(X)	74.1
	Softwood:						
24317 21	Pine	Mil. lin. ft.	20	*632.1	52.3	948.0	52.9
24317 31	Other softwood species		4	**76.5	5.5		
24317 71	Hardwood, including lauan	Mil. lin. ft.	14	**80.5	10.9	310.0	17.6
24317 00	Prefinished wood moldings (standard), made from purchased moldings, n.s.k		(NA)	(X)	6.3	(X)	3.6

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	MILLWORK--Con.						
24318 --	Other millwork products, including window screens and architectural millwork	.....	(NA)	(X)	288.3	(X)	161.6
	Stairwork, including treads, risers, balusters, brackets, crooks, newels, rails, etc.:						
24318 21	Softwood	.....	22	(X)	14.0	(X)	11.5
24318 25	Hardwood	.....	34	(X)	43.8	(X)	20.2
24318 31	Exterior wood blinds, shutters, screens, and all the foregoing of wood with or without their hardware, excluding fibrous vegetable materials	.....	28	(X)	27.3	(X)	(3)
24318 35	Exterior millwork, including porch columns, porch rails, newels, trellises, and entrances	.....	22	(X)	30.9	(X)	15.5
24318 75	Nonstandard wood moldings, carvings, and ornaments suitable for architectural or furniture decorations	.....	14	(X)	6.5	(X)	(3)
24318 98	Other architectural millwork products, including interior millwork	.....	120	(X)	113.3	(X)	389.5
24318 00	Other millwork products, n.s.k.	.....	(NA)	(X)	52.5	(X)	24.9
24310 00	Millwork products, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	485.3	(X)	301.2
24310 02	Millwork products, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	119.8	(X)	78.1
	WOOD KITCHEN CABINETS						
2434- --	Total	.....	(NA)	(X)	1,563.2	(X)	864.5
24341 --	Wood kitchen cabinets and cabinetwork, stock line	.....	(NA)	(X)	689.2	(X)	436.0
24341 11	Wood	Thousands	96	*13,334.5	516.2	14,078.1	366.6
24341 13	Plastic laminated	Thousands	47	(S)	64.1	1,886.7	62.1
24341 00	Wood kitchen cabinets and cabinetwork, stock line, n.s.k.	.....	(NA)	(X)	108.9	(X)	7.3
24342 --	Wood kitchen cabinets and cabinetwork, custom	Thousands	(NA)	(X)	433.2	4,081.0	234.9
24342 12	Wood	↕	238	**2,793.2	251.4	2,929.0	168.9
24342 14	Plastics laminated	Thousands	104	(S)	81.0	1,152.0	66.0
24342 00	Wood kitchen cabinets and cabinetwork, custom, n.s.k.	.....	(NA)	(X)	100.8	(X)	-
24343 --	Vanities and other cabinetwork	Thousands	(NA)	(X)	146.4	1,837.9	71.6
24343 16	Stock line	↕	53	**1,400.9	60.2	1,147.2	38.7
24343 18	Custom	Thousands	96	(S)	47.5	690.7	32.9
24343 00	Vanities and other cabinetwork, n.s.k.	.....	(NA)	(X)	38.7	(X)	-
24340 00	Wood kitchen cabinets, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	207.4	(X)	30.1
24340 02	Wood kitchen cabinets, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	87.1	(X)	91.9

1977 product code	Product	Unit of measure	1977				1972	
			Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Product shipments[1]		Quantity of production for all purposes	Product shipments
					Quantity[2]	Value (million dollars)		Quantity / Value (million dollars)
	HARDWOOD VENEER AND PLYWOOD							
2435- --	Total	.....	(NA)	(X)	(X)	1,160.0	(X)	(X) / 875.3
24351 --	Hardwood plywood:							
24351 00	Hardwood plywood:[4]							
	As reported in census of manufactures	Mil. sq. ft. (surf. meas.)	104	(X)	1,346.0	455.8	(X)	(X) / 368.9
	As reported in Current Industrial Reports MA-24F, Hardwood Plywood	↕	(NA)	(NA)	1,366.6	477.4	2,223.2	1,954.3 / 371.8
24351 10	Veneer core-technical and type 1, water proof		(NA)	11.2	10.2	(X)	22.2	17.6 / (X)
24351 20	Veneer core-type II, moisture resistant		(NA)	1,100.9	1,106.0	(X)	1,793.2	1,724.5 / (X)
24351 30	Veneer core-type III, dry bond		(NA)	83.0	81.7	(X)	85.5	82.9 / (X)
24351 50	Board core		(NA)	228.3	131.5	(X)	258.7	98.6 / (X)
24351 60	Container and packaging type.		(NA)	54.5	37.2	(X)	63.7	30.7 / (X)
24351 XX	Hardwood plywood, n.s.k.	Mil. sq. ft. (surf. meas.)	(NA)	(NA)	54.2	(X)	-	- / -

See footnotes at end of table.

Table 6a. **Products and Product Classes—Quantity and Value of Shipments by All Producers: 1977 and 1972**—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977				1972		
			Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Product shipments[1]		Quantity of production for all purposes	Product shipments	
					Quantity[2]	Value (million dollars)		Quantity	Value (million dollars)
	HARDWOOD VENEER AND PLYWOOD--Con.								
24352 --	Prefinished hardwood plywood made from purchased plywood:								
24352 00	Prefinished hardwood plywood made from purchased plywood:								
	As reported in census of manufactures	Mil. sq. ft. (surf. meas.)	25	(X)	2,518.2	383.8	(X)	(X)	286.7
	As reported in Current Industrial Reports MA-24F, Hardwood Plywood	Mil. sq. ft. (surf. meas.)	(NA)	(X)	2,572.8	383.5	(X)	2,996.1	299.5
24353 --	Hardwood plywood type products		(NA)	(X)	(X)	60.8	(X)	280.6	31.1
24353 11	Hardwood veneer, reinforced or backed with paper, cloth, or other flexible materials	Mil. sq. ft. (surf. meas.)	7	(X)	*194.9	36.6			
24353 31	Hardwood veneer panels		9	(X)	107.1	12.8			
24353 98	Other hardwood plywood type products, including cellular panels and curved and molded plywood	Mil. sq. ft. (surf. meas.)	12	(X)	**20.7	11.4	(X)	280.6	31.1
24353 00	Hardwood plywood type products, n.s.k.		(NA)	(X)	(X)	-			
24354 --	Hardwood veneer, not reinforced or backed		(NA)	(X)	(X)	213.7	(X)	(X)	161.3
24354 15	Birch	Mil. sq. ft. (surf. meas.)	7	*272.6	272.5	16.7			
24354 17	Maple		16	*112.9	*107.8	6.0	[5]1,373.8	[5]1,165.0	[5]158.1
24354 19	Oak		41	**1,116.2	1,063.2	67.4			
24354 21	Walnut		21	*484.2	477.3	39.5			
24354 29	Other hardwoods	Mil. sq. ft. (surf. meas.)	76	**1,493.8	*1,468.2	81.6			
24354 00	Hardwood veneer, n.s.k.		(NA)	(X)	(X)	2.5	(X)	(X)	3.2
24350 00	Hardwood veneer and plywood, n.s.k., typically for establishments with 10 employees or more (see note)		(NA)	(X)	(X)	21.4	(X)	(X)	19.4
24350 02	Hardwood veneer and plywood, n.s.k., typically for establishments with less than 10 employees (see note)		(NA)	(X)	(X)	24.6	(X)	(X)	7.9
	SOFTWOOD VENEER AND PLYWOOD								
2436- --	Total		(NA)	(X)	(X)	3,582.3	(X)	(X)	1,939.6
24361 --	Softwood plywood, interior type:[6]								
24361 00	Softwood plywood, interior type:								
	As reported in census of manufactures	Mil. sq. ft. (3/8" basis).	69	(X)	11,934.8	1,828.0	(X)	(X)	527.0
	As reported in Current Industrial Reports MA-24H, Softwood Plywood		(NA)	(NA)	12,438.2	1,871.2	6,239.2	6,343.0	545.2
24362 --	Softwood plywood, exterior type:[6]								
24362 00	Softwood plywood, exterior type:								
	As reported in census of manufactures		68	(X)	7,004.0	1,226.7	(X)	(X)	1,066.4
	As reported in Current Industrial Reports MA-24H, Softwood plywood	Mil. sq. ft. (3/8" basis).	(NA)	(NA)	7,085.8	1,253.9	11,604.2	11,631.7	1,120.7
24363 --	Softwood plywood type products		(NA)	(X)	(X)	102.6	(X)	336.8	39.6
24363 11	Softwood veneer, reinforced or backed with paper, cloth, or other flexible materials	Mil. sq. ft. (surf. meas.)	3	(X)	91.1	10.3			
24363 31	Softwood veneer panels		5	(X)	981.3	65.7			
24363 98	Other softwood plywood type products, including cellular panels and curved and molded plywood	Mil. sq. ft. (surf. meas.)	9	(X)	**347.8	26.2	(X)	336.8	39.6
24363 00	Softwood plywood type products, n.s.k.		(NA)	(X)	(X)	.4			

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977				1972		
			Number of companies with shipments of $100,000 or more	Quantity of production for all purposes[2]	Product shipments[1]		Quantity of production for all purposes	Product shipments	
					Quantity[2]	Value (million dollars)		Quantity	Value (million dollars)
2436- --	SOFTWOOD VENEER AND PLYWOOD--Con.								
24364 --	Softwood veneer, not reinforced or backed:								
24364 21	Softwood veneer, not reinforced or backed	Mil. sq. ft. (1" basis)[7].	69	**6,374.3	2,276.1	404.5	[7] [8]11,014.2	[7] [8]5,013.0	[8]304.3
24360 00	Softwood veneer and plywood, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	(X)	10.8	(X)	(X)	2.3
24360 02	Softwood veneer and plywood, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	(X)	9.8	(X)	(X)	-

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	STRUCTURAL WOOD MEMBERS, N.E.C.						
2439- --	Total	.....	(NA)	(X)	781.7	(X)	455.5
24390 --	Fabricated structural wood products: Members for heavy timber construction, including wood laminates, laminated trusses, and heavy timber decking:						
24390 31	Glued laminated lumber	Mil. bd. ft.	24	*206.3	108.1	126.5	52.4
24390 33	Sawn lumber		14	(S)	22.9	124.3	15.8
24390 35	Combination of glued laminated and sawn lumber	Mil. bd. ft.	8	(S)	12.9	(S)	9.7
24390 51	Roof trusses made of sawn lumber, light construction, sold separately	1,000 units	251	(S)	410.7	9,506.4	205.3
24390 98	Other fabricated structural wood products, n.e.c.	.....	42	(X)	79.4	(X)	31.0
24390 00	Structural wood members, n.e.c., n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	121.4	(X)	109.0
24390 02	Structural wood members, n.e.c., n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	26.3	(X)	32.3

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]In 1972, product codes 24318 31 and 24318 75 were included with product code 24318 98.

[4]Includes shipments of prefinished hardwood plywood made from plywood produced at same establishment.

[5]For 1972, detail for hardwood veneer was collected by type rather than species (see 1972 Census of Manufactures, col. II, table 6A, p. 24B-17).

[6]1977 data are not comparable with data for prior years, due to misclassification in reporting between interior plywood using exterior glue and exterior plywood. 1977 data reflect corrections for these categories. Revised data for 1972 are not available.

[7]For 1972, unit of measure was 3/8" basis.

[8]For 1972, data for softwood veneer were collected by type: Plywood and container. For detailed statistics, see 1972 Census of Manfactures, vol. II, 6A of industry chapter, page 18.

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
24311, WOOD WINDOW UNITS		
United States	609.3	279.4
New England Division:		
Massachusetts	7.8	6.0
Middle Atlantic Division:		
New York	18.6	11.4
New Jersey	10.1	CC
Pennsylvania	5.6	BB
East North Central Division:		
Ohio	26.6	16.5
Indiana	5.8	BB
Illinois	41.6	13.1
Michigan	6.0	AA
Wisconsin	81.0	28.9
West North Central Division:		
Missouri	9.7	5.6
South Atlantic Division:		
North Carolina	7.0	3.2
24312, WOOD WINDOW SASH		
United States	95.4	60.7
East North Central Division:		
Illinois	2.9	(NA)
Wisconsin	15.1	EE
East South Central Division:		
Alabama	2.7	AA
24313, WOOD WINDOW AND DOOR FRAMES		
United States	264.6	147.0
New England Division:		
Massachusetts	3.2	1.9
Middle Atlantic Division:		
New York	3.8	6.5
New Jersey	5.4	3.2
Pennsylvania	2.6	1.4
East North Central Division:		
Ohio	2.2	CC
Indiana	3.4	(NA)
Illinois	7.7	1.9
Wisconsin	16.5	10.0
West North Central Division:		
Minnesota	3.8	BB
South Atlantic Division:		
Virginia	3.2	3.6
East South Central Division:		
Mississippi	2.6	AA
West South Central Division:		
Texas	39.1	11.1
Mountain Division:		
Montana	11.2	BB
Arizona	9.0	BB
Pacific Division:		
Washington	14.5	CC
Oregon	45.6	21.4
California	63.7	29.5
24314, WOOD DOORS, INTERIOR AND EXTERIOR		
United States	707.5	527.6
New England Division:		
Massachusetts	7.9	5.9
24314, WOOD DOORS, INTERIOR AND EXTERIOR--Con.		
Middle Atlantic Division:		
New York	7.6	14.5
New Jersey	8.5	6.6
Pennsylvania	25.6	21.3
East North Central Division:		
Ohio	13.6	10.3
Indiana	25.2	41.5
Illinois	19.3	3.9
Michigan	27.4	22.6
Wisconsin	83.1	53.1
West North Central Division:		
Minnesota	10.5	3.8
Missouri	2.7	19.1
Kansas	2.9	3.4
South Atlantic Division:		
Maryland	4.4	(NA)
North Carolina	9.8	11.2
South Carolina	15.3	19.3
Georgia	4.3	6.8
Florida	5.6	19.4
East South Central Division:		
Alabama	26.6	15.0
West South Central Division:		
Texas	69.2	47.2
Mountain Division:		
Colorado	3.4	(NA)
Arizona	15.4	13.8
Pacific Division:		
Washington	105.5	52.9
Oregon	46.9	FF
California	96.8	57.0
24315, OTHER WOOD DOORS, INCLUDING GARAGE, SCREEN, ETC.		
United States	479.1	193.2
New England Division:		
New Hampshire	7.6	BB
Middle Atlantic Division:		
New York	16.5	6.9
New Jersey	5.1	1.7
Pennsylvania	40.7	17.3
East North Central Division:		
Ohio	43.1	16.5
Indiana	25.4	CC
Illinois	32.0	10.3
Michigan	6.3	(NA)
Wisconsin	34.9	14.2
West North Central Division:		
Iowa	17.8	11.8
South Atlantic Division:		
Florida	13.7	7.3
East South Central Division:		
Alabama	5.7	BB
West South Central Division:		
Oklahoma	2.6	1.6
Texas	54.8	28.7
Pacific Division:		
Washington	30.9	11.0
Oregon	10.0	CC
California	21.2	10.1

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** — Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
24316, WOOD MOLDINGS (STANDARD)		
United States	569.1	406.8
Middle Atlantic Division:		
New York	3.0	5.0
New Jersey	2.8	2.4
Pennsylvania	4.6	2.0
East North Central Division:		
Ohio	7.1	2.3
Indiana	3.7	7.0
Illinois	5.1	1.9
Michigan	2.3	2.0
Wisconsin	9.2	4.5
West North Central Division:		
Minnesota	5.6	3.1
Missouri	4.5	1.1
South Atlantic Division:		
North Carolina	11.2	6.2
South Carolina	7.3	4.1
Georgia	3.6	(NA)
Florida	2.2	(NA)
East South Central Division:		
Tennessee	4.1	6.9
Alabama	12.2	CC
West South Central Division:		
Arkansas	9.9	4.1
Texas	53.4	29.0
Mountain Division:		
New Mexico	17.6	11.7
Arizona	11.5	9.2
Utah	2.4	BB
Pacific Division:		
Washington	12.8	5.2
Oregon	108.5	69.5
California	221.7	160.2
24317, PREFINISHED WOOD MOLDINGS (STANDARD) MADE FROM PURCHASED MOLDINGS		
United States	75.0	74.1
East North Central Division:		
Illinois	8.1	CC
Wisconsin	2.3	(NA)
West South Central Division:		
Texas	4.4	(NA)
Pacific Division:		
Washington	4.1	(NA)
California	10.3	EE
24318, OTHER MILLWORK PRODUCTS		
United States	288.3	161.6
New England Division:		
Massachusetts	5.0	(NA)
Connecticut	2.6	1.8
Middle Atlantic Division:		
New York	18.5	13.9
New Jersey	17.5	13.6
Pennsylvania	11.7	4.6
East North Central Division:		
Ohio	11.5	6.7
Indiana	2.3	AA
Illinois	10.1	9.0
Michigan	23.4	BB
Wisconsin	9.0	5.8
West North Central Division:		
Minnesota	2.5	(NA)
Missouri	2.9	8.1

Product class and geographic area	Value of product shipments	
	1977	1972
24318, OTHER MILLWORK PRODUCTS--Con.		
South Atlantic Division:		
Maryland	9.2	7.9
Virginia	13.7	4.9
North Carolina	2.6	2.4
South Carolina	2.5	3.5
Florida	3.0	3.7
East South Central Division:		
Kentucky	4.4	BB
Tennessee	18.7	5.0
Alabama	5.8	4.2
West South Central Division:		
Louisiana	5.7	1.1
Oklahoma	2.6	(NA)
Texas	25.3	20.6
Pacific Division:		
Washington	18.9	6.0
Oregon	7.2	BB
California	26.8	10.5
24341, WOOD KITCHEN CABINETS, STOCK LINE		
United States	689.2	436.0
New England Division:		
Massachusetts	3.6	BB
Middle Atlantic Division:		
New York	12.1	14.8
Pennsylvania	66.2	38.4
East North Central Division:		
Ohio	8.4	7.2
Indiana	123.5	90.1
Illinois	12.2	8.1
Michigan	31.0	17.4
Wisconsin	21.5	2.4
West North Central Division:		
Minnesota	16.1	6.5
Iowa	16.2	CC
Missouri	3.1	(NA)
Kansas	3.9	BB
South Atlantic Division:		
Georgia	13.0	EE
Florida	5.2	8.2
East South Central Division:		
Tennessee	23.8	7.8
Alabama	7.4	BB
West South Central Division:		
Louisiana	2.3	(NA)
Texas	19.3	17.8
Mountain Division:		
Colorado	11.4	7.2
Arizona	6.0	CC
Pacific Division:		
Washington	38.4	15.1
California	48.7	30.3
24342, WOOD KITCHEN CABINETS, CUSTOM		
United States	433.2	234.9
New England Division:		
Massachusetts	6.8	3.2
Connecticut	8.3	BB
Middle Atlantic Division:		
New York	16.9	16.4
New Jersey	6.5	5.5
Pennsylvania	48.3	30.8

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** — Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
24342, WOOD KITCHEN CABINETS, CUSTOM--Con.		
East North Central Division:		
Ohio	12.3	4.0
Indiana	29.6	18.5
Illinois	13.7	4.3
Michigan	5.9	2.0
Wisconsin	10.8	3.5
West North Central Division:		
Minnesota	14.1	7.4
Missouri	6.7	1.5
Kansas	4.7	1.6
South Atlantic Division:		
Maryland	4.7	6.2
Virginia	6.5	3.8
North Carolina	3.1	(NA)
Georgia	6.8	3.8
Florida	38.2	31.0
East South Central Division:		
Kentucky	3.2	2.6
Tennessee	5.9	3.6
Alabama	5.3	AA
West South Central Division:		
Arkansas	2.9	AA
Louisiana	3.2	(NA)
Oklahoma	2.2	1.2
Texas	21.1	10.2
Mountain Division:		
Arizona	10.6	4.3
Utah	4.2	1.3
Pacific Division:		
Washington	10.1	3.8
Oregon	10.1	AA
California	82.2	42.9
Hawaii	2.5	AA
24343, VANITIES AND OTHER CABINETWORK		
United States	146.4	71.6
Middle Atlantic Division:		
New York	7.0	3.1
Pennsylvania	2.8	3.6
East North Central Division:		
Ohio	5.5	1.8
Indiana	30.9	16.3
Illinois	2.7	1.3
Michigan	4.7	3.0
Wisconsin	2.7	(NA)
West North Central Division:		
Minnesota	4.9	1.5
Missouri	2.8	(NA)
South Atlantic Division:		
Virginia	2.6	(NA)
Florida	6.0	4.0
East South Central Division:		
Kentucky	2.1	(NA)
Tennessee	3.0	(NA)
Alabama	2.3	(NA)
West South Central Division:		
Oklahoma	4.1	1.1
Texas	6.9	3.7
Mountain Division:		
Arizona	2.2	(NA)
Pacific Division:		
Washington	5.9	2.5
Oregon	3.9	AA
California	23.5	8.5

Product class and geographic area	Value of product shipments	
	1977	1972
24351, HARDWOOD PLYWOOD		
United States	455.8	368.9
New England Division:		
Vermont	21.3	BB
East North Central Division:		
Indiana	27.7	24.0
Wisconsin	19.2	50.1
West North Central Division:		
Minnesota	4.1	AA
South Atlantic Division:		
Virginia	15.9	16.9
North Carolina	51.2	32.1
South Carolina	35.2	36.5
Georgia	44.3	19.0
East South Central Division:		
Tennessee	12.4	AA
Alabama	10.6	8.4
West South Central Division:		
Arkansas	18.8	BB
Pacific Division:		
Washington	41.5	34.7
Oregon	93.3	71.4
California	28.0	EE
24352, PREFINISHED HARDWOOD PLYWOOD (MADE FROM PURCHASED PLYWOOD)		
United States	383.8	286.7
Pacific Division:		
California	53.7	41.2
24353, HARDWOOD PLYWOOD TYPE PRODUCTS		
United States	60.8	31.1
South Atlantic Division:		
North Carolina	9.3	BB
Pacific Division:		
California	4.2	AA
24354, HARDWOOD VENEER, NOT REINFORCED OR BACKED		
United States	213.7	161.3
East North Central Division:		
Indiana	53.6	24.3
Wisconsin	23.1	14.7
South Atlantic Division:		
Virginia	11.4	11.2
North Carolina	34.0	44.7
South Carolina	3.7	3.9
Georgia	6.6	3.3
East South Central Division:		
Kentucky	13.4	9.9
Alabama	4.1	6.6
West South Central Division:		
Arkansas	8.2	AA
Louisiana	2.3	AA
24361, SOFTWOOD PLYWOOD, INTERIOR TYPE		
United States	1,828.0	527.0
South Atlantic Division:		
North Carolina	65.6	CC
East South Central Division:		
Alabama	84.4	28.2
Mississippi	109.9	EE
West South Central Division:		
Louisiana	152.2	EE
Texas	153.0	40.5

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** – Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
24361, SOFTWOOD PLYWOOD, INTERIOR TYPE--Con.		
Mountain Division:		
Montana	50.7	EE
Pacific Division:		
Washington	131.2	78.1
Oregon	644.8	223.2
California	36.6	34.4
24362, SOFTWOOD PLYWOOD, EXTERIOR TYPE		
United States	1,226.7	1,066.4
East South Central Division:		
Mississippi	24.3	FF
Mountain Division:		
Montana	58.1	18.1
Pacific Division:		
Washington	243.2	165.1
Oregon	604.9	480.4
California	57.5	70.1
24363, SOFTWOOD PLYWOOD TYPE PRODUCTS		
United States	102.6	39.6
Pacific Division:		
Oregon	50.6	EE
24364, SOFTWOOD VENEER, NOT REINFORCED OR BACKED		
United States	404.5	304.3
South Atlantic Division:		
North Carolina	8.5	5.5
East South Central Division:		
Alabama	4.2	3.7
Pacific Division:		
Washington	33.1	34.5
Oregon	285.1	195.2
California	40.0	26.5

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available.

Table 6c. **Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977**

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2431-	Millwork	3,693.3	2,860.2	2,231.2	2,203.4	2,566.8	2,229.7	1,195.9	(NA)
24311	Wood window units	609.3	591.8	418.5	361.3	316.6	279.4	149.6	119.1
24312	Wood window sash	95.4	79.8	r59.4	49.9	59.8	60.7	39.8	40.4
24313	Wood window and door frames	264.6	195.6	126.8	134.0	(183.4)	147.0	56.6	68.5
24314	Wood doors, interior and exterior	707.5	677.1	563.2	559.4	661.1	527.6	287.5	254.9
24315	Other wood doors, including garage, screen, etc	479.1	245.5	206.7	189.8	233.6	193.2	117.4	127.9
24316	Wood moldings (standard)	569.1	510.5	358.4	383.0	435.7	406.8	(NA)	(NA)
24317	Prefinished wood moldings (standard) made from purchased moldings	75.0	(62.1)	(47.7)	59.0	(81.5)	74.1	(NA)	(NA)
24318	Other millwork products	288.3	365.2	r312.3	297.0	198.4	161.6	108.3	89.4
24310	Millwork products, n.s.k.	605.1	(132.7)	r(138.3)	170.0	396.7	379.3	241.0	125.4
2434-	Wood kitchen cabinets	1,563.2	1,200.4	1,054.1	1,062.6	1,019.2	864.5	(NA)	(NA)
24341	Wood kitchen cabinets, stock line	689.2	565.4	493.7	528.9	530.6	436.0	250.8	250.1
24342	Wood kitchen cabinets, custom	433.2	388.4	356.3	334.7	276.6	[2]234.9	[2]141.2	[2]149.6
24343	Vanities and other cabinetwork	146.4	181.7	155.2	151.7	123.7	71.6	(NA)	(NA)
24340	Wood kitchen cabinets, n.s.k.	294.5	64.8	48.8	47.3	88.3	122.0	(NA)	(NA)
2435-	Hardwood veneer and plywood	1,160.0	937.2	782.3	889.7	964.1	875.3	607.1	(NA)
24351	Hardwood plywood	455.8	404.1	337.0	404.6	397.9	368.9	333.0	292.8
24352	Prefinished hardwood plywood (made from purchased plywood)	383.8	296.9	235.1	246.0	288.6	286.7	105.1	(NA)
24353	Hardwood plywood type products	60.8	(33.2)	(30.4)	31.3	33.6	31.1	33.0	(NA)
24354	Hardwood veneer, not reinforced or backed	213.7	208.1	183.6	206.1	197.2	161.3	126.0	122.2
24350	Hardwood veneer and plywood, n.s.k.	46.0	([3])	([3])	(S)	46.8	27.3	[4]25.2	[4]9.5
2436-	Softwood veneer and plywood	3,582.3	2,832.6	2,103.7	1,982.6	2,270.3	1,939.6	(NA)	(NA)
24361	Softwood plywood, interior type[5]	1,828.0	594.3	465.9	463.4	551.4	527.0	382.6	415.3
24362	Softwood plywood, exterior type[5]	1,226.7	1,820.0	1,295.3	1,174.7	1,322.7	1,066.4	401.1	225.2
24363	Softwood plywood type products	102.6	69.7	r54.7	56.9	58.8	39.6	24.2	(NA)
24364	Softwood veneer, not reinforced or backed	404.5	342.4	283.0	285.6	335.1	304.3	135.3	129.2
24360	Softwood veneer and plywood, n.s.k.	20.6	(6.2)	(4.9)	(2.0)	2.3	2.3	([4])	([4])
24390	Fabricated structural wood products	781.7	567.6	453.4	477.0	545.8	455.5	(NA)	(NA)

(NA) Not available. n.s.k. Not specified by kind. rRevised. (S) Withheld because estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]For 1972, individual product codes included in product class differ from 1967 and 1963. Products shifting into or out of this product class represent approximately 7 percent of total 1967 shipments.

[3]Withheld because estimated figure is negative. This is consequence of using difference method of estimation (see Estimating Procedures in appendix B) and of improved establishment reporting that resulted in changing classification of shipments from n.s.k. code for 1972 Census to specified 5-digit product classes for this year. Four-digit total is best estimate, even though smaller than sum of 5-digit values.

[4]For 1967 and prior years, product class 24350 included data for product class 24360.

[5]Data for prior years are not comparable to 1977 due to misclassification in reporting between interior plywood using exterior glue and exterior plywood. 1977 data reflect corrections for these categories. Revised data for years prior to 1977 not available.

Table 7. **Materials Consumed by Kind: 1977 and 1972**

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2431, MILLWORK					
	Materials, parts, and supplies	.....	(X)	2,239.4	(X)	1,320.1
	Logs, bolts, and unsliced flitches:					
241111	Hardwood	Million ft. (log scale).	10.0	2.2	64.8	10.3
241112	Softwood	Million ft. (log scale).	*72.4	16.2	81.2	6.8
	Rough lumber:					
242110	Hardwood	Million bd. ft.	**192.7	87.5	209.0	47.7
242121	Softwood	↕	836.7	339.7	803.2	181.0
	Dressed lumber:					
242117	Hardwood	↕	180.7	49.9	227.1	42.9
242128	Softwood	Million bd. ft.	**1,006.7	448.1	1,254.5	301.5
	Veneer:					
243540	Hardwood	Mil. sq. feet (surf. meas.).	(S)	52.1	717.2	48.3
243640	Softwood	Mil. sq. feet (1 in. basis).	(S)	1.2	(S)	5.9
	Hardwood plywood, other than container type:					
243511	Veneer core	Mil. sq. feet (surf. meas.).	(S)	60.7	257.4	28.8
243513	Board core, including lumber, particleboard, and hardboard core	Mil. sq. feet (surf. meas.).	(S)	15.5	22.0	5.7
243601	Softwood plywood	Mil. sq. feet (3/8 in. basis)	(S)	7.1	78.2	12.0
249200	Particleboard (wood)	Mil. sq. feet (3/4 in. basis)	*79.4	13.6	99.6	16.4
249960	Hardboard (wood fiberboard)	Mil. sq. feet (1/8 in. basis)	378.0	38.0	336.8	23.6
249970	Medium density fiberboard (MDF)	Mil. sq. feet (3/4 in. basis)	(S)	1.4	(NA)	(2)
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	.....	(X)	13.6	(X)	(2)
342940	Builders' hardware, including doors, locks, lock set, lock trim, miscellaneous sash, screen, and shelf hardware; hinges and butts; hangers, tracks, and related items; cabinet hardware and all other builders' hardware	.....	(X)	134.2	(X)	78.7
265001	Paperboard boxes and containers	.....	(X)	9.6	(X)	8.4
970099	All other materials and components, parts, containers, and supplies	.....	(X)	479.7	(X)	2259.6
971000	Materials, parts, and supplies, n.s.k.[3]	.....	(X)	469.1	(X)	242.4
	INDUSTRY 2434, WOOD KITCHEN CABINETS					
	(Data do not meet publication standards)					
	INDUSTRY 2435, HARDWOOD VENEER AND PLYWOOD					
	Materials, parts, and supplies	.....	(X)	765.3	(X)	550.5
081111	Stumpage cost (cost of timber, excluding land, cut and consumed at same establishment)	.....	(X)	4.0	(X)	4.5
	Logs, bolts, and unsliced flitches:					
241111	Hardwood	Million ft. (log scale).	**248.3	76.7	602.7	61.0
241112	Softwood	Million ft. (log scale).	139.3	27.1	128.8	10.4
	Lumber, rough and dressed:					
242111	Hardwood	Mil. bd. ft.	**58.3	14.7	171.7	21.3
242123	Softwood	Mil. bd. ft.	(S)	(4)	(D)	(D)
	Veneer:					
243540	Hardwood	Mil. sq. ft. (surf. meas.).	2,950.9	179.3	3,547.0	139.7
243640	Softwood	Mil. sq. ft. (1" basis).	95.4	21.0	5419.9	19.4
	Plywood:					
243510	Hardwood	Mil. sq. ft. (surf. meas.).	*1,866.8	228.0	1,953.8	133.6
243601	Softwood	Mil. sq. ft. (3/8" basis).	177.7	30.4	(D)	(D)
249200	Particleboard (wood)	Mil. sq. ft. (3/4" basis).	*505.6	66.6	(S)	14.9
289101	Glues and adhesives (soybean, casein, blood, albumen, synthetic resin adhesives, etc.)	Million lb	**132.6	14.2	119.0	7.1
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc; but excluding sheets, rods, tubes, and shapes	Million lb (dry basis).	*1.8	.3	(X)	85.9
970099	All other materials and components, parts, containers, and supplies	.....	(X)	474.2		
971000	Materials, parts, and supplies, n.s.k.[3]	.....	(X)	28.6	(X)	15.1

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2436, SOFTWOOD VENEER AND PLYWOOD					
	Materials, parts, and supplies	.....	(X)	2,084.8	(X)	1,002.9
081111	Stumpage cost (cost of timber, excluding land, cut and consumed at same establishment)	.....	(X)	179.9	(X)	136.0
	Logs, bolts, and unsliced flitches:					
241111	Hardwood	Million ft. (log scale).	108.8	25.7	260.5	21.2
241112	Softwood	Million ft. (log scale).	5,998.2	1,055.5	4,789.6	435.7
	Lumber, rough and dressed:					
242111	Hardwood	Mil. bd. ft.	(D)	(D)	(D)	(D)
242123	Softwood	Mil. bd. ft.	*175.5	29.6	(D)	(D)
	Veneer:					
243540	Hardwood	Mil. sq. ft. (surf. meas.)	104.5	7.4	285.8	13.2
243640	Softwood	Mil. sq. ft. (1" basis).	2,209.8	378.0	[5]3,335.9	196.0
	Plywood:					
243510	Hardwood	Mil. sq. ft. (surf. meas.).	(D)	(D)	(D)	(D)
243601	Softwood	Mil. sq. ft. (3/8" basis).	836.6	85.5	511.6	34.9
249200	Particleboard (wood)	Mil. sq. ft. (3/4" basis).	24.1	3.7	(S)	.7
289101	Glues and adhesives (soybean, casein, blood, albumen, synthetic resin adhesives, etc.)	Million pounds.	**1,338.3	119.3	1,046.0	46.4
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.; but excluding sheets, rods, tubes, and shapes	Million pounds (dry basis).	29.0	4.2	(X)	94.8
970099	All other materials and components, parts, containers, and supplies	.....	(X)	169.1	(X)	
971000	Materials, parts, and supplies, n.s.k.[3]	.....	(X)	25.7	(X)	18.6
	INDUSTRY 2439, STRUCTURAL WOOD MEMBERS, N.E.C.					
	Materials, parts, and supplies	.....	(X)	450.9	(X)	250.4
	Rough lumber:					
242110	Hardwood	Million bd. ft.	(S)	16.3	30.8	9.0
242121	Softwood		**91.4	21.3	105.1	18.0
	Dressed lumber:					
242117	Hardwood		**67.1	14.8	46.9	9.7
242128	Softwood	Million bd. ft.	*752.1	191.6	579.1	97.9
	Plywood:					
243510	Hardwood	Million sq. ft. (surf. meas.).	(S)	.9	(NA)	([6])
243601	Softwood	Million sq. ft. (3/8" basis).	**60.3	12.5	37.6	4.7
249200	Particleboard (wood)	Million sq. ft. (3/4" basis).	(S)	2.0	(D)	1.8
249960	Hardboard (wood fiberboard)	Million sq. ft. (1/8" basis).	(S)	.8	(NA)	([6])
327511	Gypsum building board	1,000 s. tons..	(S)	.1	(NA)	([6])
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	Million pounds.	(S)	2.1	(NA)	([6])
342940	Builders' hardware, including door locks, lock sets, lock trim, miscellaneous sash, screen, and shelf hardware; hinges and butts; hangers, tracks, and related items; cabinet hardware, and all other builders' hardware	.....	(X)	6.3	(X)	2.4
344112	Iron and steel fabricated structural metal for buildings, including truss plates	1,000 s. tons..	**8.8	7.6	(NA)	([6])
970099	All other materials and components, parts, containers, and supplies	.....	(X)	49.9	(X)	[6]37.2
971000	All other materials, parts, and supplies, n.s.k.[3]	.....	(X)	124.7	(X)	69.6

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]In 1972, material codes 249970 and 307903 were included with material code 970099.

[3]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[4]For 1977, material code 242123 was included with material code 970099 to avoid disclosing operations of individual companies.

[5]For 1972, unit of measure was 3/8" basis.

[6]In 1972, material codes 243510, 249960, 327511, 282104, and 344112 were included with material code 970099.

Wooden Containers and Miscellaneous Wood Products

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DESCRIPTION OF INDUSTRIES

WOODEN CONTAINERS AND MISCELLANEOUS WOOD PRODUCTS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2441	Nailed Wood Boxes and Shook
2448	Wood Pallets and Skids
2449	Wood Containers, N.E.C.
2491	Wood Preserving
2492	Particleboard
2499	Wood Products, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2441, NAILED WOOD BOXES AND SHOOK

This industry comprises establishments primarily engaged in the manufacture of nailed and lock-corner wood boxes (lumber or plywood), and which also may produce shook for nailed and lock-corner boxes.

The total value of shipments for establishments classified in the Nailed Wood Boxes and Shook industry amounted to $263 million in 1977, an increase of 10 percent from 1972. The value of shipments of products classified as primary to the industry was $265 million, an increase of 14 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were wooden box and crate shook made from lumber for industrial and other uses, for which shipments increased 34 percent, and wooden box and crate shook made from lumber for fruits and vegetables, for which shipments increased 7 percent. Value added by manufacture, at $116 million in 1977, was 9 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 8.6 thousand employees, a decrease of 20 percent from 1972. The leading States in employment were California, Texas, Pennsylvania, and Washington, accounting for approximately 40 percent of the industry's 1977 employment. Data for California and Washington have been withheld to avoid disclosing operations of individual companies.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 12 percent of total value of shipments.

INDUSTRY 2448, WOOD PALLETS AND SKIDS

This industry comprises establishments primarily engaged in the manufacture of wood and wood-metal combination pallets and skids. Establishments primarily engaged in the manufacture of metal pallets are classified in industry 3537.

The 1977 definition of this industry is unchanged from that given in the 1972 SIC Manual and its 1977 supplement, but the data for 1977 are not strictly comparable to data for prior years. In 1972, the data for this industry did not include statistics for establishments of single-unit companies with less than 10 employees which were excluded from the mail portion of the census. These small establishments remained classified under industry 2499, Wood Products, N.E.C., under which the Wood Pallets and Skids industry had been included prior to 1972. The effect of this misclassification on the data for 1972 was significant because of the large number of small establishments in this industry. The industry classification codes for these establishments have been updated for 1977.

The total value of shipments for establishments classified in the Wood Pallets and Skids industry amounted to $698 million in 1977, an increase of 136 percent from 1972. The value of shipments of products classified as primary to the industry was $643 million, an increase of 124 percent from 1972. (See the

Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $303 million in 1977, was 115 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 20.3 thousand employees, an increase of 42 percent from 1972. The leading States in employment were California, Michigan, Pennsylvania, and Ohio, accounting for approximately 30 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 25 percent of the industry's employment although there has been some shift in the relative importance of individual States.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 18 percent of total value of shipments.

INDUSTRY 2449, WOOD CONTAINERS, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of wood containers, not elsewhere classified, such as cooperage, wirebound boxes and crates, and other veneer and plywood containers. Establishments primarily engaged in the manufacture of tobacco hogshead stock are classified in industry 2421, and those in the manufacture of cooperage stock in industry 2429.

The total value of shipments for establishments classified in the Wood Containers, N.E.C. industry amounted to $256 million in 1977, an increase of 6 percent from 1972. The value of shipments of products classified as primary to the industry was $235 million, an increase of 8 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $120 million in 1977, was 6 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 8.9 thousand employees, a decrease of 25 percent from 1972. The leading States in employment were Georgia, North Carolina, Kentucky, and Florida, accounting for approximately 40 percent of the industry's 1977 employment. This represents a shift from 1972 when Mississippi, Georgia, Florida, and North Carolina accounted for approximately 35 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2491, WOOD PRESERVING

This industry comprises establishments primarily engaged in treating wood, sawed or planed in other establishments, with creosote or other preservatives to prevent decay and to protect against fire and insects. This industry also includes the cutting, treating, and selling of poles, posts, and piling, but establishments primarily engaged in the manufacture of other wood products, which they may also treat with preservatives, are not included.

The total value of shipments for establishments classified in the Wood Preserving industry amounted to $963 million in 1977, an increase of 102 percent from 1972. The value of shipments of products classified as primary to the industry was $892 million, an increase of 93 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $327 million in 1977, was 86 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 12.6 thousand employees, a decrease of 12 percent from 1972. The leading States in employment were Georgia, Mississippi, Alabama, and Texas, accounting for approximately 30 percent of the industry's 1977 employment. Data for Mississippi, Alabama, and Texas have been withheld to avoid disclosing operations of individual companies.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 7 percent of total value of shipments.

INDUSTRY 2492, PARTICLEBOARD

This industry comprises establishments primarily engaged in the manufacture of wood panel products from small wood particles. This includes preparation of small particles of wood, drying, mixing with synthetic resin binder, and compressing. Pressing may take place in hydraulic presses with heated platens or by extrusion.

The total value of shipments for establishments classified in the Particleboard industry amounted to $453 million in 1977, an increase of 53 percent from 1972. The value of shipments of products classified as primary to the industry was $477 million, an increase of 67 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) Value added by manufacture, at $207 million in 1977, was 43 percent above value added in 1972. All dollar figures shown in this report are

in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 6.2 thousand employees, a decrease of 23 percent from 1972. The leading States in employment were Oregon, Virginia, and Mississippi, accounting for approximately 50 percent of the industry's 1977 employment. Data for these States have been withheld to avoid disclosing operations of individual companies.

No establishments in this industry were excluded from the mail portion of the census. The data for a small number of establishments whose reports were not received at the time the data were tabulated were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2499, WOOD PRODUCTS, N.E.C.

This industry comprises establishments primarily engaged in turning and shaping wood, and manufacturing miscellaneous wood products, not elsewhere classified, from rattan, reed, splint, straw, veneer, veneer strips, wicker, and willow. This industry also includes establishments manufacturing lasts and related products, cork products, hardboard, and wood or metal mirror and picture frames. Establishments primarily engaged in the manufacture of particleboard are classified in industry 2492, and those manufacturing pallets and skids in industry 2448.

The total value of shipments for establishments classified in the Wood Products, N.E.C. industry amounted to $2,558 million in 1977, an increase of 68 percent from 1972. The value of shipments of products classified as primary to the industry was $2,489 million, an increase of 68 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were fabricated hardboard products made from hardboard produced at the same location, for which shipments increased 97 percent, and mirror and picture frames, for which shipments increased 82 percent. Value added by manufacture, at $1,266 million in 1977, was 56 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 64.6 thousand employees, an increase of 3 percent from 1972. The leading States in employment were California, Illinois, North Carolina, and Mississippi, accounting for approximately 35 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 30 percent of the industry's employment although there has been some shift in the relative importance of individual States.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 10 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2441, NAILED WOOD BOXES AND SHOOK																
1977 Census--	391	396	110	8.6	68.6	7.5	13.7	53.6	116.2	147.4	263.3	5.4	(NA)	31.2	89	83
1976 ASM----	(NA)	(NA)	(NA)	8.3	62.1	7.1	12.3	47.2	112.0	125.0	235.9	6.6	54.3	27.6	(NA)	(NA)
1975 ASM[5]---	(NA)	(NA)	(NA)	7.2	50.6	6.0	10.6	37.4	94.7	106.6	205.7	7.1	55.2	27.1	(NA)	(NA)
1974 ASM[6]---	(NA)	(NA)	(NA)	9.7	64.1	8.5	15.5	50.6	129.3	133.4	262.3	4.8	51.8	31.5	(NA)	(NA)
1973 ASM[6]---	(NA)	(NA)	(NA)	9.5	58.4	8.4	15.5	45.7	96.7	114.1	210.0	6.6	54.0	27.4	(NA)	(NA)
1972 Census--	424	436	130	10.7	61.1	9.5	18.4	49.0	103.8	136.3	237.9	6.4	58.2	26.1	88	87
1971 ASM----	(NA)	(NA)	(NA)	8.7	50.0	7.7	14.2	39.0	85.9	123.7	208.3	4.8	52.3	27.3	(NA)	(NA)
1970 ASM[5]---	(NA)	(NA)	(NA)	10.8	57.9	9.5	18.0	45.1	86.6	137.8	223.9	6.1	64.4	25.9	(NA)	(NA)
1969 ASM[5]---	(NA)	(NA)	(NA)	14.9	69.5	13.8	26.5	57.7	130.6	168.8	303.4	8.2	86.0	35.3	(NA)	(NA)
1968 ASM[5]---	(NA)	(NA)	(NA)	15.5	72.5	14.2	27.6	60.1	134.9	170.4	308.2	7.8	81.9	32.6	(NA)	(NA)
1967 Census--	567	596	182	15.9	70.9	14.4	27.8	56.9	123.0	151.7	273.8	5.0	78.4	31.4	88	87
1966 ASM[6]---	(NA)	(NA)	(NA)	16.4	71.3	14.5	29.2	57.5	112.7	156.6	268.2	11.2	(NA)	27.5	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	15.2	61.0	13.6	27.0	49.5	95.6	135.7	231.8	7.8	(NA)	27.7	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	14.1	57.8	12.6	25.6	46.1	84.0	123.3	205.7	3.8	54.7	28.7	(NA)	(NA)
1963 Census--	537	563	183	14.5	55.9	12.9	26.3	45.9	85.0	121.2	206.0	6.0	52.0	25.3	85	83
INDUSTRY 2448, WOOD PALLETS AND SKIDS[3]																
1977 Census--	1 267	1 290	348	20.3	163.8	17.9	32.1	126.3	303.1	397.3	698.0	21.3	(NA)	58.1	90	91
1976 ASM----	(NA)	(NA)	(NA)	13.1	107.9	11.4	20.1	83.1	239.5	256.6	493.4	13.3	141.1	37.1	(NA)	(NA)
1975 ASM[5]---	(NA)	(NA)	(NA)	13.0	107.0	11.1	19.0	80.0	223.3	247.6	475.1	19.6	150.0	35.9	(NA)	(NA)
1974 ASM[6]---	(NA)	(NA)	(NA)	15.7	108.8	13.7	24.9	82.6	262.8	262.4	521.3	20.5	129.9	38.6	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	17.1	95.4	14.7	26.5	71.5	205.8	234.0	437.6	14.9	97.3	30.3	(NA)	(NA)
1972 Census--	444	456	271	14.3	77.7	12.5	23.1	60.3	140.9	155.2	295.4	11.2	82.6	17.2	91	88
INDUSTRY 2449, WOOD CONTAINERS, N.E.C.[3]																
1977 Census--	239	263	82	8.9	67.2	8.0	15.5	53.7	120.4	134.4	255.8	2.9	(NA)	50.5	93	97
1976 ASM----	(NA)	(NA)	(NA)	11.3	80.8	10.3	19.5	66.1	160.7	154.3	311.0	3.2	75.1	49.1	(NA)	(NA)
1975 ASM[6]---	(NA)	(NA)	(NA)	11.3	75.8	10.3	19.6	61.9	154.3	152.5	303.0	9.9	76.9	47.3	(NA)	(NA)
1974 ASM[6]---	(NA)	(NA)	(NA)	12.5	76.9	11.4	23.2	63.8	159.2	161.6	316.4	6.4	68.9	51.1	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	12.3	70.3	11.1	22.0	56.0	132.0	139.3	272.2	3.5	73.0	38.6	(NA)	(NA)
1972 Census--	236	268	100	11.9	65.0	10.5	21.0	51.9	114.1	126.7	240.2	3.6	74.6	38.9	94	98
INDUSTRY 2491, WOOD PRESERVING																
1977 Census--	368	457	192	12.6	126.1	9.9	19.7	82.9	327.1	657.5	962.6	30.3	(NA)	212.5	97	97
1976 ASM----	(NA)	(NA)	(NA)	9.7	94.5	7.7	15.4	59.3	229.0	476.6	704.3	22.3	227.3	159.7	(NA)	(NA)
1975 ASM[6]---	(NA)	(NA)	(NA)	9.3	87.5	7.4	15.7	60.2	228.3	415.8	647.7	27.5	222.0	155.7	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	10.6	93.6	8.6	18.5	68.1	326.3	479.8	761.2	28.1	194.9	168.4	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	10.1	75.1	8.4	17.9	55.1	186.3	371.5	557.4	11.6	160.6	96.6	(NA)	(NA)
1972 Census--	309	399	168	11.3	74.5	9.2	18.8	54.4	175.8	303.6	475.8	14.8	147.4	94.7	99	96
1971 ASM----	(NA)	(NA)	(NA)	11.3	74.5	9.3	19.7	53.6	156.5	267.5	416.9	10.4	137.1	93.1	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	12.0	73.3	9.7	20.2	51.8	144.2	242.6	387.8	8.4	134.4	80.1	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	12.1	67.6	10.1	21.1	51.6	143.0	246.8	386.1	13.2	131.8	83.4	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	12.6	65.2	10.6	22.1	50.5	145.4	230.6	375.1	9.3	113.8	79.1	(NA)	(NA)
1967 Census--	278	375	177	12.2	61.9	10.3	21.7	47.1	135.6	214.5	344.2	10.7	109.1	77.0	98	98
1966 ASM[6]---	(NA)	(NA)	(NA)	12.1	56.8	10.3	22.0	43.8	126.3	204.5	326.0	10.4	(NA)	74.3	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	11.2	48.6	9.5	19.9	37.1	101.7	178.9	279.6	11.4	(NA)	61.8	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	11.1	48.3	9.3	19.3	35.9	97.9	170.2	270.9	5.8	91.4	59.6	(NA)	(NA)
1963 Census--	250	338	157	11.2	45.3	9.5	19.4	34.7	93.3	155.4	247.3	5.5	88.0	61.9	98	97

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2492, PARTICLEBOARD[3]																
1977 Census--	35	63	51	6.2	79.1	5.0	10.9	60.3	207.2	245.3	452.9	32.5	(NA)	21.1	99	95
1976 ASM----	(NA)	(NA)	(NA)	5.6	62.7	4.6	9.3	47.4	125.7	196.5	320.5	33.2	416.7	23.1	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	5.5	55.5	4.5	8.9	41.5	90.1	175.2	265.0	30.2	426.9	24.7	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	7.5	67.9	6.1	12.8	52.0	168.2	199.0	364.8	58.5	397.0	25.4	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	7.6	68.7	6.5	13.8	54.2	217.4	173.4	391.1	12.5	325.7	17.5	(NA)	(NA)
1972 Census--	40	68	64	7.7	65.5	6.4	13.8	51.8	144.5	152.1	295.4	34.6	332.0	16.8	91	93
INDUSTRY 2499, WOOD PRODUCTS, N.E.C.[3]																
1977 Census--	2 903	3 050	662	64.6	608.1	53.9	102.3	438.0	1 265.5	1 302.8	2 557.6	116.9	(NA)	368.5	94	93
1976 ASM----	(NA)	(NA)	(NA)	66.7	573.7	56.2	104.3	414.1	1 142.2	1 169.5	2 272.9	102.9	1 053.2	338.3	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	63.4	483.4	54.0	93.9	349.2	924.2	964.1	1 898.8	96.9	980.0	269.8	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	70.2	508.2	59.8	108.6	366.7	975.4	1 037.0	1 964.6	112.0	845.6	288.9	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	66.4	446.9	56.4	108.1	325.8	899.7	848.9	1 744.3	72.5	839.0	240.1	(NA)	(NA)
1972 Census--	3 008	3 133	646	63.0	410.0	53.0	102.6	294.3	809.1	714.6	1 518.9	86.3	785.7	202.6	93	91

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2441, NAILED WOOD BOXES AND SHOOK											
1977 Census--	8 016	(NA)	87	1 828	3.90	56	82	(NA)	13 590	58	8.46
1976 ASM----	7 481	6 542	85	1 732	3.83	52	79	23	13 493	55	9.10
1975 ASM----	7 027	7 666	83	1 766	3.52	51	76	26	13 152	53	8.93
1974 ASM----	6 608	5 340	87	1 823	3.26	50	75	19	13 329	49	8.34
1973 ASM----	6 147	5 684	88	1 845	2.94	54	82	25	10 178	60	6.23
1972 Census--	5 710	5 439	88	1 936	2.66	57	82	24	9 700	58	5.64
1971 ASM----	5 747	6 011	88	1 844	2.74	59	83	25	9 873	58	6.04
1970 ASM----	5 361	5 962	87	1 894	2.50	61	87	28	8 018	66	4.81
1969 ASM----	4 664	5 771	92	1 920	2.17	55	78	28	8 765	53	4.92
1968 ASM----	4 677	5 283	91	1 943	2.17	55	78	26	8 703	53	4.88
1967 Census--	4 459	4 930	90	1 930	2.04	55	81	28	7 735	57	4.42
1966 ASM----	4 347	(NA)	88	2 013	1.96	58	84	(NA)	6 871	63	3.85
1965 ASM----	4 013	(NA)	89	1 985	1.83	58	84	(NA)	6 289	63	3.54
1964 ASM----	4 099	3 879	89	2 031	1.80	59	88	26	5 957	68	3.28
1963 Census--	3 855	3 586	88	2 038	1.74	58	85	25	5 862	65	3.23
INDUSTRY 2448, WOOD PALLETS AND SKIDS											
1977 Census--	8 053	(NA)	88	1 788	3.93	56	80	(NA)	14 898	54	9.44
1976 ASM----	8 236	10 770	87	1 763	4.13	52	73	28	18 282	45	11.91
1975 ASM----	8 230	11 538	85	1 711	4.21	52	74	31	17 176	47	11.75
1974 ASM----	6 929	8 273	87	1 817	3.31	50	71	24	16 738	41	10.55
1973 ASM----	5 578	5 690	85	1 802	2.69	53	75	22	12 035	46	7.76
1972 Census--	5 433	5 776	87	1 848	2.61	52	78	27	9 853	55	6.09
INDUSTRY 2449, WOOD CONTAINERS, N.E.C.											
1977 Census--	7 521	(NA)	89	1 936	3.47	52	78	(NA)	13 473	55	7.77
1976 ASM----	7 150	6 646	91	1 893	3.38	49	75	24	14 221	50	8.24
1975 ASM----	6 707	6 805	91	1 902	3.15	50	75	25	13 654	49	7.87
1974 ASM----	6 152	5 512	91	2 035	2.75	51	75	21	12 736	48	6.86
1973 ASM----	5 715	5 934	90	1 981	2.54	51	77	26	10 731	53	6.00
1972 Census--	5 462	6 268	88	2 000	2.47	52	79	31	9 588	56	5.43
INDUSTRY 2491, WOOD PRESERVING											
1977 Census--	10 017	(NA)	78	1 990	4.20	68	81	(NA)	25 994	38	16.58
1976 ASM----	9 742	23 432	79	2 000	3.85	67	81	32	23 608	41	14.87
1975 ASM----	9 408	23 870	79	2 121	3.83	64	77	34	24 548	38	14.54
1974 ASM----	8 830	18 386	81	2 151	3.68	63	75	25	30 783	28	17.63
1973 ASM----	7 435	15 900	83	2 130	3.07	66	80	28	18 445	40	10.40
1972 Census--	6 592	13 044	81	2 043	2.89	63	79	30	15 557	42	9.35
1971 ASM----	6 592	12 132	82	2 118	2.72	64	82	32	13 849	47	7.94
1970 ASM----	6 108	11 200	80	2 082	2.56	62	81	34	12 016	50	7.13
1969 ASM----	5 586	10 892	83	2 089	2.44	63	81	34	11 818	47	6.77
1968 ASM----	5 174	9 031	84	2 084	2.28	61	78	30	11 539	44	6.57
1967 Census--	5 073	8 942	84	2 106	2.17	62	80	31	11 114	45	6.24
1966 ASM----	4 694	(NA)	85	2 135	1.99	62	80	(NA)	10 438	44	5.74
1965 ASM----	4 339	(NA)	84	2 094	1.86	63	81	(NA)	9 080	47	5.11
1964 ASM----	4 351	8 234	83	2 075	1.86	62	80	33	8 819	49	5.07
1963 Census--	4 044	7 857	84	2 042	1.78	62	81	35	8 330	48	4.80

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2492, PARTICLEBOARD										
1977 Census--	12 667	(NA)	80	2 151	5.55	54	71	(NA)	33 173	38	19.07
1976 ASM----	11 196	74 410	82	2 021	5.09	61	80	130	22 446	49	13.51
1975 ASM----	10 090	77 618	81	1 977	4.66	66	87	161	16 381	61	10.12
1974 ASM----	9 053	52 933	81	2 098	4.06	54	73	108	22 426	40	13.14
1973 ASM----	9 039	42 855	85	2 123	3.92	44	61	83	28 605	31	15.75
1972 Census--	8 506	43 116	83	2 156	3.75	51	73	112	18 766	45	10.47
	INDUSTRY 2499, WOOD PRODUCTS, N.E.C.										
1977 Census--	9 414	(NA)	83	1 898	4.28	50	74	(NA)	19 592	48	12.37
1976 ASM----	8 601	15 790	84	1 855	3.97	51	76	46	17 124	50	10.95
1975 ASM----	7 624	15 457	85	1 738	3.71	50	76	51	14 577	52	9.84
1974 ASM----	7 239	12 045	85	1 816	3.37	52	78	43	13 894	52	8.98
1973 ASM----	6 730	12 635	84	1 916	3.01	48	74	48	13 549	49	8.32
1972 Census--	6 507	12 471	84	1 935	2.86	47	74	51	12 842	50	7.88

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2441, NAILED WOOD BOXES AND SHOOK													
United States	**E1**	**396**	**110**	**8.6**	**66.6**	**7.5**	**13.7**	**53.6**	**116.2**	**147.4**	**263.3**	**5.4**	**10.7**	**103.8**
New England Division:													
New Hampshire	–	7	4	0.3	1.4	0.2	0.4	1.1	3.1	2.3	5.4	(D)	0.3	2.3
Middle Atlantic Division:													
New York	E2	31	5	0.3	2.8	0.3	0.6	2.0	4.2	5.5	9.6	0.2	0.8	6.0
Pennsylvania	E1	17	7	0.5	4.1	0.4	0.7	2.8	6.3	10.6	17.1	0.2	0.3	3.2
East North Central Division:														
Indiana	–	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Michigan	E1	21	4	0.2	1.8	0.2	0.3	1.2	4.3	3.8	8.1	0.1	(NA)	(NA)
Wisconsin	E2	13	6	0.4	2.7	0.3	0.6	2.2	4.0	4.7	8.6	(D)	0.4	2.9
West North Central Division:														
Missouri	E1	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Atlantic Division:														
Virginia	–	8	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Carolina	–	5	3	0.3	2.1	0.3	0.6	1.8	2.8	2.3	5.2	(D)	AA	(D)
Florida	–	9	4	0.3	1.8	0.2	0.4	1.3	3.6	1.9	5.5	0.1	BB	(D)
East South Central Division:														
Tennessee	–	9	4	0.5	3.3	0.5	0.9	2.7	4.2	5.4	9.1	(D)	BB	(D)
Alabama	E6	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	3.3
Mississippi	E1	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Arkansas	E1	10	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Texas	–	22	10	0.6	4.7	0.5	0.9	3.2	9.2	11.1	20.2	(D)	0.9	7.8
Pacific Division:														
Washington	–	11	3	0.5	5.4	0.5	0.8	4.3	10.1	10.3	19.7	0.3	BB	(D)
California	–	80	18	1.6	16.0	1.4	2.5	13.0	26.3	46.1	74.0	1.0	EE	(D)
INDUSTRY 2448, WOOD PALLETS AND SKIDS														
United States	**E1**	**1 290**	**348**	**20.3**	**163.8**	**17.9**	**32.1**	**125.3**	**303.1**	**397.3**	**698.0**	**21.3**	**14.3**	**140.9**
New England Division:														
Massachusetts	–	24	7	0.3	2.7	0.3	0.5	2.0	4.3	6.0	10.2	0.2	0.2	2.3
Connecticut	E1	14	3	0.2	1.8	0.2	0.3	1.3	3.0	3.6	6.6	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	E1	50	11	0.7	6.3	0.6	1.1	4.4	10.9	14.1	25.0	0.9	0.5	6.1
New Jersey	E4	24	5	0.3	2.4	0.2	0.4	1.7	4.4	5.5	9.9	(D)	0.4	4.6
Pennsylvania	E2	90	25	1.3	11.5	1.2	2.2	9.0	20.7	29.2	49.7	1.1	1.0	10.1
East North Central Division:														
Ohio	E2	102	21	1.3	11.4	1.1	2.1	8.7	20.2	27.5	47.4	1.4	0.9	10.1
Indiana	E1	68	12	0.7	6.1	0.6	1.1	4.4	12.1	13.1	25.2	0.5	0.5	4.1
Illinois	E2	46	13	0.6	5.0	0.6	1.0	4.1	9.5	16.4	25.9	0.8	0.4	4.1
Michigan	E2	112	23	1.5	11.9	1.3	2.3	9.0	25.5	28.2	53.7	1.7	1.3	13.6
Wisconsin	E1	60	19	1.1	9.8	1.0	1.9	7.6	16.5	19.5	36.0	1.2	0.7	6.2
West North Central Division:														
Minnesota	–	15	3	0.3	2.4	0.2	0.4	1.9	4.0	12.1	16.1	0.4	(NA)	(NA)
Iowa	–	18	6	0.3	2.1	0.3	0.4	1.8	3.8	4.7	8.5	0.2	(NA)	(NA)
Missouri	E1	60	19	1.0	7.0	0.9	1.5	5.6	15.8	16.5	32.4	1.3	0.6	5.5
South Atlantic Division:														
Maryland	–	11	4	0.2	1.5	0.2	0.3	1.0	2.9	5.3	8.2	0.3	(NA)	(NA)
Virginia	E1	38	16	0.9	6.8	0.8	1.4	5.1	12.3	20.3	32.4	1.4	0.9	6.4
West Virginia	E1	18	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.4
North Carolina	–	27	9	0.6	4.1	0.5	0.9	3.3	7.7	10.8	18.5	0.8	0.5	4.6
South Carolina	E3	19	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	E1	45	11	0.6	4.3	0.6	0.9	3.6	7.4	10.4	17.6	(D)	0.3	2.7
Florida	E1	13	3	0.2	1.4	0.2	0.3	1.1	1.9	4.1	6.0	0.2	(NA)	(NA)
East South Central Division:														
Kentucky	E1	56	21	1.1	7.4	1.0	1.8	6.2	13.9	16.1	30.0	1.4	1.0	7.3
Tennessee	E2	37	12	0.7	5.0	0.6	1.0	3.9	8.4	10.5	18.8	1.0	BB	(D)
Alabama	E3	38	10	0.6	4.0	0.5	0.8	2.9	8.2	8.3	16.4	0.3	0.4	3.6
Mississippi	E1	25	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Arkansas	E2	26	7	0.4	2.7	0.3	0.5	2.0	4.3	7.8	12.0	0.3	CC	(D)
Louisiana	E1	15	4	0.3	1.7	0.2	0.4	1.3	3.3	4.7	8.0	(D)	0.3	2.3
Texas	–	56	19	1.3	10.6	1.1	2.1	7.9	16.5	20.7	37.0	1.2	CC	(D)
Pacific Division:														
Washington	E2	18	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.5
Oregon	E3	11	3	0.2	1.4	0.2	0.3	1.2	2.8	4.5	7.3	(D)	(NA)	(NA)
California	–	65	25	1.6	15.5	1.4	2.5	11.3	26.3	41.6	67.8	1.2	1.0	12.6

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2449, WOOD CONTAINERS, N.E.C.														
United States	-	**263**	**82**	**8.9**	**67.2**	**8.0**	**15.5**	**53.7**	**120.4**	**134.4**	**255.8**	**2.9**	**11.9**	**114.1**
New England Division:														
Vermont	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:														
New York	-	9	2	0.2	1.8	0.2	0.3	1.3	2.9	2.5	5.3	0.1	0.2	2.4
East North Central Division:														
Michigan	-	17	4	0.3	2.1	0.2	0.4	1.5	5.0	5.4	10.0	0.1	0.2	2.0
Wisconsin	-	8	4	0.3	3.7	0.3	0.5	2.7	5.6	5.1	10.7	(D)	0.5	4.3
West North Central Division:														
Missouri	-	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Atlantic Division:														
Virginia	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
North Carolina	-	17	7	0.9	6.3	0.9	1.8	5.4	9.9	12.1	21.8	0.4	0.9	5.6
South Carolina	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.4
Georgia	-	13	7	1.2	8.1	1.1	2.1	6.4	15.6	13.9	29.1	0.5	1.1	9.9
Florida	-	18	7	0.7	4.3	0.7	1.3	3.4	7.2	11.8	19.3	0.1	1.0	7.3
East South Central Division:														
Kentucky	-	9	5	0.6	7.7	0.6	1.1	6.6	8.4	26.1	36.3	(D)	0.8	15.1
Tennessee	-	8	5	0.6	4.8	0.5	1.0	4.0	6.5	6.9	13.5	(D)	0.7	6.7
Alabama	E2	12	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	1.5
Mississippi	-	7	4	0.6	3.9	0.5	0.9	2.6	12.1	10.5	22.6	(D)	1.1	11.0
West South Central Division:														
Arkansas	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Texas	-	10	4	0.4	2.3	0.3	0.6	1.9	2.1	3.7	5.9	(D)	CC	(D)
Pacific Division:														
Oregon	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
California	E1	35	2	0.3	2.7	0.3	0.5	2.3	5.4	4.9	10.3	0.1	BB	(D)
INDUSTRY 2491, WOOD PRESERVING														
United States	-	**457**	**192**	**12.6**	**126.1**	**9.9**	**19.7**	**82.9**	**327.1**	**657.5**	**982.6**	**30.3**	**11.3**	**175.8**
Middle Atlantic Division:														
Pennsylvania	-	16	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
East North Central Division:														
Ohio	-	6	3	0.2	2.7	0.2	0.4	1.9	5.6	13.1	18.8	0.7	BB	(D)
Indiana	E1	9	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois	-	12	5	0.3	3.0	0.2	0.5	2.0	12.5	20.0	31.7	0.9	BB	(D)
West North Central Division:														
Minnesota	-	13	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Missouri	-	20	6	0.3	2.4	0.2	0.4	1.5	8.3	14.4	22.4	(D)	0.4	4.3
South Atlantic Division:														
Virginia	-	13	8	0.5	5.1	0.4	0.7	3.2	14.1	26.1	39.8	1.4	BB	(D)
West Virginia	E5	10	3	0.5	4.6	0.4	0.8	3.0	12.1	18.9	28.8	(D)	BB	(D)
North Carolina	-	16	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	5.5
South Carolina	-	14	6	0.6	6.8	0.4	0.8	3.0	19.3	39.0	57.3	(D)	0.5	11.4
Georgia	-	26	13	1.1	9.4	0.9	2.0	7.4	25.9	51.5	76.1	2.2	0.9	17.1
Florida	-	21	7	0.5	5.0	0.4	0.8	3.2	10.6	28.8	38.4	0.4	0.6	9.6
East South Central Division:														
Tennessee	-	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Alabama	-	25	12	0.8	6.9	0.6	1.3	4.5	22.7	40.4	62.1	1.5	CC	(D)
Mississippi	-	31	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West South Central Division:														
Arkansas	-	24	10	0.7	6.4	0.6	1.3	4.7	17.5	36.5	51.2	2.1	CC	(D)
Louisiana	-	19	10	0.6	5.2	0.5	0.9	2.9	10.9	23.2	32.4	1.1	CC	(D)
Texas	-	22	12	0.7	7.5	0.6	1.3	5.0	17.9	36.2	51.9	1.0	CC	(D)
Mountain Division:														
Idaho	-	9	2	0.2	1.7	0.1	0.2	0.9	4.2	4.8	9.2	0.3	(NA)	(NA)
Pacific Division:														
Washington	-	21	9	0.6	8.4	0.5	0.9	6.2	11.6	33.8	45.5	0.9	CC	(D)
Oregon	-	12	10	0.5	6.2	0.4	0.7	4.5	15.1	29.8	45.1	1.1	BB	(D)
California	-	30	14	0.7	8.0	0.6	1.0	5.3	20.3	43.2	63.0	(D)	BB	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2492, PARTICLEBOARD													
United States	-	**63**	**51**	**6.2**	**79.1**	**5.0**	**10.9**	**60.3**	**207.2**	**245.3**	**452.9**	**32.5**	**7.7**	**144.5**
East North Central Division:													
Michigan	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Wisconsin	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Atlantic Division:														
Virginia	-	4	4	0.8	8.4	0.7	1.6	6.4	17.8	25.2	43.2	2.9	CC	(D)
North Carolina	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	7.9
Georgia	-	4	4	0.4	4.8	0.4	0.8	3.7	15.4	19.3	34.7	(D)	AA	(D)
East South Central Division:														
Alabama	-	4	4	0.4	4.5	0.3	0.7	3.2	8.2	15.4	23.2	0.3	(NA)	(NA)
Mississippi	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West South Central Division:														
Arkansas	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Louisiana	-	3	3	0.3	3.9	0.3	0.6	2.8	12.3	13.7	26.2	(D)	BB	(D)
Oklahoma	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas	-	5	3	0.3	2.8	0.2	0.5	2.1	12.3	13.2	25.7	0.4	AA	(D)
Mountain Division:														
Montana	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Oregon	-	12	11	1.6	23.9	1.3	2.5	18.7	67.4	69.4	136.3	4.4	EE	(D)
California	-	5	4	0.3	5.5	0.3	0.6	4.2	13.2	14.9	27.9	(D)	CC	(D)
INDUSTRY 2499, WOOD PRODUCTS, N.E.C.														
United States	-	**3 050**	**662**	**64.6**	**608.1**	**53.9**	**102.3**	**438.0**	**1 265.5**	**1 302.8**	**2 557.6**	**116.9**	**63.0**	**809.1**
New England Division:														
Maine	-	90	37	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
New Hampshire	E1	40	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Vermont	-	33	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Massachusetts	-	91	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Rhode Island	E2	17	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Connecticut	E1	35	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.4
Middle Atlantic Division:														
New York	E2	256	48	3.7	34.5	3.1	5.8	23.8	64.7	64.9	129.8	3.2	FF	(D)
New Jersey	E1	85	18	1.6	16.4	1.3	2.5	9.7	26.8	37.6	64.3	(D)	EE	(D)
Pennsylvania	-	140	18	2.2	20.8	1.8	3.6	15.3	60.6	57.3	114.3	8.1	2.3	28.7
East North Central Division:														
Ohio	-	127	28	2.6	24.7	1.9	3.4	14.6	53.3	53.7	107.6	1.7	2.2	34.0
Indiana	-	75	21	1.7	14.4	1.3	2.4	9.6	34.5	27.8	61.8	1.4	1.6	18.1
Illinois	-	131	40	4.9	46.8	3.9	7.0	31.0	87.6	77.6	164.4	4.6	5.5	73.8
Michigan	-	159	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	63.0
Wisconsin	-	85	20	2.0	20.2	1.7	3.3	14.2	42.6	36.7	79.5	3.7	1.7	25.6
West North Central Division:														
Minnesota	-	60	14	2.1	27.6	1.8	3.5	21.4	59.4	53.3	114.5	6.2	EE	(D)
Iowa	-	15	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Missouri	E2	95	22	1.4	10.3	1.2	2.1	7.5	18.7	20.5	39.1	(D)	1.5	15.0
Kansas	-	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Maryland	E1	28	7	0.5	5.1	0.4	0.8	4.1	9.6	12.7	21.9	(D)	BB	(D)
Virginia	-	37	9	1.7	16.7	1.4	2.8	12.7	31.0	32.7	62.6	4.6	1.7	19.6
North Carolina	E1	109	36	4.1	34.1	3.4	6.4	25.0	82.2	91.4	173.8	6.1	3.3	38.6
South Carolina	-	34	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	E1	46	11	1.1	8.3	0.9	1.6	6.2	17.2	23.1	39.7	(D)	EE	(D)
Florida	E2	83	11	0.7	5.7	0.6	1.1	4.0	12.5	12.1	24.5	0.8	0.7	9.1
East South Central Division:														
Kentucky	-	31	6	0.4	3.0	0.3	0.6	2.2	6.0	8.1	13.9	0.3	0.7	6.7
Tennessee	E1	74	21	1.6	13.0	1.4	2.6	9.9	23.0	24.4	46.9	(D)	EE	(D)
Alabama	E1	37	4	0.5	4.5	0.5	1.0	3.8	10.2	11.8	22.0	1.2	0.6	6.8
Mississippi	-	27	14	4.2	40.4	3.4	6.9	29.7	88.0	82.5	169.7	6.9	FF	(D)
West South Central Division:														
Arkansas	-	44	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	18.2
Louisiana	E2	22	4	0.2	1.7	0.2	0.3	1.3	3.0	5.2	8.3	(D)	0.4	5.6
Oklahoma	-	21	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.1
Texas	E1	131	22	1.6	14.5	1.4	2.8	10.9	35.8	40.4	80.1	1.7	1.5	17.5
Mountain Division:														
Montana	-	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	E1	60	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	7.7
Oregon	-	93	28	2.3	28.2	1.9	3.8	22.0	64.2	56.4	120.0	4.1	1.4	29.9
California	-	457	84	8.1	78.7	6.8	12.9	57.2	173.2	187.6	354.8	22.1	5.7	92.4

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Nailed wood boxes and shook (SIC 2441)	Wood pallets and skids (SIC 2448)	Wood containers, n.e.c. (SIC 2449)	Wood preserving (SIC 2491)	Particleboard (SIC 2492)	Wood products, n.e.c. (SIC 2499)
Primary product specialization ratio[1]	percent	89	90	93	97	89	94
Coverage ratio[2]	do	83	91	97	97	85	93
All establishments	number	396	1 290	263	457	63	3 050
With 1 to 19 employees	do	286	942	181	265	12	2 388
With 20 to 99 employees	do	95	334	51	173	19	529
With 100 employees or more	do	15	14	31	19	32	133
All employees, average for year	1,000	8.6	20.3	8.9	12.6	6.2	64.6
Payroll for year, all employees	mil. dol.	68.6	163.8	67.2	126.1	79.1	608.1
Production workers:							
Average for year	1,000	7.5	17.9	8.0	9.9	5.0	53.9
March	do	7.4	17.4	8.0	9.4	4.8	52.4
May	do	7.8	17.9	8.3	9.8	4.9	53.6
August	do	7.8	18.6	7.8	10.4	5.2	54.7
November	do	7.0	18.0	7.9	10.0	5.3	54.8
Hours	millions	13.7	32.1	15.5	19.7	10.9	102.3
January to March	do	3.2	7.7	3.8	4.5	2.5	24.7
April to June	do	3.8	7.9	4.0	4.9	2.7	25.9
July to September	do	3.6	8.3	3.9	5.3	2.8	25.2
October to December	do	3.1	8.1	3.8	5.1	2.9	26.4
Wages	mil. dol.	53.6	126.3	53.7	82.9	60.3	438.0
Cost of materials, etc.	do	147.4	397.3	134.4	657.5	245.3	1 302.8
Materials, parts, containers, etc., consumed	do	129.4	338.6	122.9	589.8	213.0	1 100.1
Resales	do	10.3	42.5	5.9	42.5	(Z)	61.5
Fuels consumed	do	1.5	5.8	1.4	17.1	10.3	65.8
Purchased electric energy	do	3.0	7.0	2.8	5.8	20.7	66.9
Contract work	do	3.2	3.4	1.4	2.3	1.3	8.5
Value of shipments, including resales	do	263.3	698.0	255.8	962.6	452.9	2 557.6
Value of resales	do	11.3	42.0	6.1	46.0	(Z)	69.0
Value added by manufacture	do	116.2	303.1	120.4	327.1	207.2	1 265.5
Manufacturers' inventories:							
Beginning of year	do	30.2	52.4	51.8	184.5	21.7	345.4
Finished products	do	9.6	9.9	15.6	78.4	9.5	135.6
Work in process	do	5.0	9.9	8.0	49.1	2.8	53.0
Materials, supplies, fuel, etc.	do	15.6	32.6	28.2	57.0	9.4	156.8
End of year	do	31.2	58.1	50.5	212.5	21.1	368.5
Finished products	do	10.7	10.0	16.1	87.0	9.3	142.2
Work in process	do	4.3	12.0	6.6	62.5	2.6	57.1
Materials, supplies, fuel, etc.	do	16.2	36.0	27.9	63.0	9.2	169.2
Capital expenditures for plant and equipment	do	6.2	24.7	3.8	32.0	34.2	123.2
New capital expenditures	do	5.4	21.3	2.9	30.3	32.5	116.9
New buildings and other structures	do	1.3	4.4	0.6	3.3	3.2	20.3
New machinery and equipment	do	4.1	17.0	2.3	27.0	29.3	96.5
Used capital expenditures	do	0.8	3.4	0.9	1.7	1.7	6.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Nailed wood boxes and shook (SIC 2441)		Wood pallets and skids (SIC 2448)		Wood containers, n.e.c. (SIC 2449)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	(0.9)	48	(0.7)	40	(0.3)	19
Response coverage ratio[2] (percent)	64.7	(X)	78.0	(X)	62.6	(X)
Machinery	(2.2)	31	(9.5)	73	(3.9)	36
Response coverage ratio[2] (percent)	60.5	(X)	62.0	(X)	64.5	(X)
Cost of purchased communication services	(0.8)	34	(1.5)	89	(0.7)	75
Response coverage ratio[2] (percent)	65.7	(X)	61.1	(X)	76.3	(X)
Rental payments	(2.7)	24	(10.3)	30	(1.9)	27
Buildings and other structures	(2.2)	29	(7.3)	40	(0.8)	31
Machinery and equipment	(0.6)	26	(2.9)	24	(1.1)	32
Supplemental labor costs	9.4	9	19.5	6	9.9	8
Legal costs	6.5	9	13.5	5	5.8	6
Voluntary costs	(2.9)	19	(6.1)	15	4.1	14
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning or year	(11.7)	16	(48.7)	27	(22.6)	31
New capital expenditures	(1.2)	41	(5.2)	27	(0.6)	21
Used capital expenditures	-	(X)	(0.7)	21	0.1	1
Retirements	(1.2)	48	(2.9)	47	(0.8)	17
End of year	(11.7)	17	(51.6)	24	(22.5)	31
Machinery and equipment:						
Beginning of year	33.2	10	(121.0)	17	45.8	13
New capital expenditures	(5.1)	26	(22.9)	17	(2.2)	22
Automobiles, trucks, etc., for highway use[3]	(0.5)	(A)	(5.6)	17	(0.2)	(A)
Computers and peripheral data processing equipment[3]	(Z)	(A)	(0.1)	(A)	(0.1)	(A)
All other[3]	(1.5)	(A)	(9.8)	(A)	(1.4)	(A)
New machinery and equipment, n.s.k.[4]	(3.0)	(A)	7.5	1	(0.4)	(A)
Used capital expenditures	(0.8)	38	(3.4)	38	(0.7)	18
Retirements	(1.8)	59	(6.5)	23	(2.3)	20
End of year	37.2	9	(140.8)	13	46.4	12
Total gross value of depreciable assets:						
Beginning of year	45.0	10	(169.9)	17	(68.4)	17
New capital expenditures	(6.2)	28	(28.1)	16	(2.8)	19
Used capital expenditures	(0.8)	37	(4.0)	32	(0.9)	15
Retirements	(3.1)	50	(9.4)	21	(3.1)	18
End of year	49.0	9	192.6	13	(68.9)	17
Depreciation charges during 1977	(4.7)	19	(28.3)	21	5.1	14
Buildings and other structures	(1.0)	55	(5.3)	24	(1.3)	30
Machinery and equipment	3.6	5	(23.0)	23	3.8	12

See footnotes at end of table.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977—Con.

(For explanation of terms, see appendix A. For description of survey of manufactures (ASM), see appendix B)

Item	Wood preserving (SIC 2491)		Particleboard (SIC 2492)		Wood products, n.e.c. (SIC 2499)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	(0.7)	72	0.4	6	(2.6)	18
Response coverage ratio[2] (percent)	47.5	(X)	62.1	(X)	61.5	(X)
Machinery	(9.2)	21	3.6	2	17.6	7
Response coverage ratio[2] (percent)	50.8	(X)	66.4	(X)	58.8	(X)
Cost of purchased communication services	1.3	3	0.7	12	5.4	10
Response coverage ratio[2] (percent)	46.6	(X)	60.5	(X)	59.8	(X)
Rental payments	(5.2)	21	1.1	4	18.8	9
Buildings and other structures	(0.6)	78	(0.1)	19	12.6	11
Machinery and equipment	(4.6)	23	1.0	2	6.1	14
Supplemental labor costs	22.0	4	17.0	2	100.7	3
Legal costs	11.9	4	7.3	2	52.6	3
Voluntary costs	10.1	5	9.7	2	48.1	4
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning or year	(45.9)	15	77.2	3	271.9	4
New capital expenditures	(2.1)	24	2.8	14	18.9	13
Used capital expenditures	-	(A)	0.2	1	(4.1)	18
Retirements	(2.7)	24	(1.5)	57	(9.3)	15
End of year	45.3	14	78.7	3	285.6	4
Machinery and equipment:						
Beginning of year	213.3	4	364.9	3	797.4	3
New capital expenditures	(28.5)	16	28.4	4	(112.8)	16
Automobiles, trucks, etc., for highway use[3]	(1.9)	(A)	(0.6)	(A)	(4.1)	(A)
Computers and peripheral data processing equipment[3]	-	(A)	(0.1)	(A)	(0.5)	(A)
All other[3]	(17.7)	(A)	(27.4)	73	(58.4)	34
New machinery and equipment, n.s.k.[4]	(8.8)	(A)	(0.4)	(A)	(49.9)	40
Used capital expenditures	(1.6)	40	1.4	1	(2.9)	16
Retirements	11.7	9	(6.6)	22	33.0	14
End of year	231.7	3	388.1	3	880.1	2
Total gross value of depreciable assets:						
Beginning of year	259.2	5	442.0	3	1,069.5	2
New capital expenditures	(30.5)	15	31.3	5	131.7	14
Used capital expenditures	(1.6)	40	1.7	1	6.9	13
Retirements	14.4	9	(8.1)	27	42.2	14
End of year	277.0	4	466.9	3	1,165.9	1
Depreciation charges during 1977	25.9	6	36.1	3	85.7	4
Buildings and other structures	(4.2)	22	5.7	3	14.3	9
Machinery and equipment	21.7	4	30.3	3	71.4	4

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2441, NAILED WOOD BOXES AND SHOOK												
Total	**E1**	**396**	**8.5**	**68.6**	**7.5**	**13.7**	**53.6**	**116.2**	**147.4**	**263.3**	**5.4**	**31.2**
Establishments with an average of—												
1 to 4 employees	E6	154	0.3	2.3	0.3	0.5	1.8	4.0	6.6	10.5	0.2	1.2
5 to 9 employees	E3	67	0.5	4.2	0.4	0.8	3.2	6.5	8.1	14.6	0.4	1.5
10 to 19 employees	E1	55	0.9	6.8	0.8	1.3	5.2	13.2	17.8	30.8	0.7	3.4
20 to 49 employees	–	68	2.1	17.4	1.8	3.2	12.9	34.7	34.8	69.9	1.7	6.7
50 to 99 employees	E1	27	2.0	15.5	1.7	3.2	11.5	27.2	36.7	64.1	0.8	5.4
100 to 249 employees	–	12	2.0	14.8	1.8	3.4	12.5	23.9	25.7	48.0	1.2	7.8
250 to 499 employees	–	3	0.8	7.6	0.7	1.5	6.6	6.7	17.7	25.3	0.4	5.3
Covered by administrative records[2]	E0	145	0.5	3.7	0.5	0.8	2.9	6.1	7.7	13.7	0.4	1.6
INDUSTRY 2448, WOOD PALLETS AND SKIDS												
Total	**E1**	**1 290**	**20.3**	**163.8**	**17.9**	**32.1**	**126.3**	**303.1**	**397.3**	**698.0**	**21.3**	**58.1**
Establishments with an average of—												
1 to 4 employees	E7	443	0.8	6.1	0.8	1.2	4.8	13.7	14.6	28.4	0.9	2.4
5 to 9 employees	E5	236	1.6	12.8	1.5	2.6	10.2	27.0	31.1	57.3	1.8	7.0
10 to 19 employees	E2	263	3.6	28.4	3.1	5.3	21.6	54.7	76.1	130.7	3.3	10.4
20 to 49 employees	E1	265	7.9	61.3	7.0	12.3	47.8	110.8	141.4	251.5	8.7	19.7
50 to 99 employees	E1	69	4.7	39.8	4.1	7.9	31.0	66.6	91.4	157.3	4.9	12.7
100 to 249 employees	–	14	1.8	15.5	1.5	2.7	10.9	30.3	42.6	72.8	1.8	6.0
Covered by administrative records[2]	E0	542	2.3	18.5	2.2	3.7	14.6	37.2	41.6	78.8	2.3	6.1
INDUSTRY 2449, WOOD CONTAINERS, N.E.C.												
Total	**–**	**263**	**8.9**	**67.2**	**8.0**	**15.5**	**53.7**	**120.4**	**134.4**	**255.8**	**2.9**	**50.5**
Establishments with an average of—												
1 to 4 employees	E8	105	0.2	1.4	0.2	0.3	1.1	2.7	2.5	5.5	0.1	0.6
5 to 9 employees	E5	47	0.3	2.4	0.3	0.5	1.9	4.4	4.0	8.3	0.1	1.1
10 to 19 employees	E1	29	0.4	3.3	0.3	0.6	2.5	7.9	6.7	14.1	0.2	3.2
20 to 49 employees	–	31	1.0	8.2	0.9	1.6	6.0	18.0	12.1	28.4	0.7	5.3
50 to 99 employees	–	20	1.6	10.9	1.4	2.7	8.6	19.4	21.1	40.3	0.3	5.0
100 to 249 employees	–	25	3.7	27.2	3.3	6.7	22.1	42.1	59.1	104.7	0.7	26.2
250 to 499 employees	–	6	1.8	13.9	1.6	3.0	11.5	25.9	28.9	54.5	0.7	9.1
Covered by administrative records[2]	E0	115	0.4	2.7	0.4	0.6	2.2	4.9	4.6	9.5	0.1	1.1
INDUSTRY 2491, WOOD PRESERVING												
Total	**–**	**457**	**12.6**	**126.1**	**9.9**	**19.7**	**82.9**	**327.1**	**557.5**	**962.6**	**30.3**	**212.5**
Establishments with an average of—												
1 to 4 employees	E7	115	0.2	1.9	0.2	0.3	1.3	4.5	8.9	13.3	0.5	2.7
5 to 9 employees	E3	70	0.5	4.5	0.4	0.8	3.0	12.0	20.0	31.8	0.8	6.4
10 to 19 employees	E1	80	1.1	10.2	0.8	1.7	6.4	27.4	52.6	79.7	2.5	16.4
20 to 49 employees	–	115	3.7	36.6	2.8	5.4	23.6	97.1	207.0	301.6	7.7	62.3
50 to 99 employees	–	58	3.9	40.0	3.1	6.3	26.8	107.4	211.9	308.9	(18.8)	75.4
100 to 249 employees	–	15	1.9	20.2	1.6	3.1	13.6	51.7	111.6	158.1	(D)	36.5
250 to 499 employees	E2	4	1.2	12.5	1.0	2.0	8.1	27.0	45.5	69.2	(D)	12.8
Covered by administrative records[2]	E0	127	0.4	4.1	0.4	0.7	2.6	8.8	18.3	27.1	0.9	5.9
INDUSTRY 2492, PARTICLEBOARD												
Total	**–**	**63**	**6.2**	**79.1**	**5.0**	**10.9**	**50.3**	**207.2**	**245.3**	**452.9**	**32.5**	**21.1**
Establishments with an average of—												
1 to 4 employees	E0	9	(Z)	0.1	(Z)	(Z)	0.1	(S)	0.3	0.4	(16.0)	(Z)
5 to 9 employees	–	2	(1.3)	(16.7)	(1.1)	(2.3)	(12.7)	(52.3)	(51.7)	(103.8)	(D)	(5.6)
10 to 19 employees	–	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	–	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	–	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	–	30	(4.9)	(62.3)	(4.0)	(8.6)	(47.5)	(155.1)	(193.3)	(348.7)	(16.5)	(15.4)
250 to 499 employees	–	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
INDUSTRY 2499, WOOD PRODUCTS, N.E.C.												
Total	**–**	**3 050**	**54.5**	**508.1**	**53.9**	**102.3**	**438.0**	**1 265.5**	**1 302.8**	**2 557.6**	**116.9**	**368.5**
Establishments with an average of—												
1 to 4 employees	E7	1 644	2.5	22.8	2.5	4.0	16.5	49.3	44.8	95.3	3.9	13.2
5 to 9 employees	E3	373	2.5	21.8	2.1	3.8	15.8	47.8	39.1	86.4	4.7	12.3
10 to 19 employees	E2	371	5.1	43.3	4.2	7.5	30.3	88.2	88.2	175.2	5.2	25.3
20 to 49 employees	E1	361	11.3	97.5	9.5	17.4	68.5	194.3	211.3	401.3	10.9	59.3
50 to 99 employees	–	168	12.1	101.7	10.4	20.0	76.1	202.7	207.6	408.2	13.1	66.4
100 to 249 employees	–	105	16.3	157.4	13.6	27.0	115.9	333.8	358.6	689.5	28.7	89.8
250 to 499 employees	–	17	6.2	64.1	5.0	9.5	45.9	136.1	140.0	279.3	19.0	40.0
500 to 999 employees	–	9	(8.6)	(99.4)	(6.6)	(13.0)	(69.0)	(213.2)	(213.0)	(422.2)	(31.4)	(62.3)
1,000 to 2,499 employees	–	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	1 426	2.7	23.5	2.6	4.3	16.9	46.6	46.8	93.4	4.0	13.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2441	**Nailed wood boxes and shook:**										
	Entire industry	396	8.6	68.6	7.5	13.7	53.6	116.2	147.4	263.3	5.4
	Establishments with 75 percent specialization or more	346	6.6	52.2	5.8	10.6	41.2	90.1	106.1	195.9	4.2
24411	Nailed or lock-corner wooden boxes:										
	Establishments with this product class primary	84	3.1	22.9	2.8	5.1	18.1	39.0	49.7	87.4	1.7
	Establishments with 75 percent specialization or more in class	64	2.5	18.1	2.2	4.2	14.7	31.1	35.9	65.8	1.3
24412	Wooden box and crate shook:										
	Establishments with this product class primary	92	3.8	32.9	3.3	6.0	25.6	55.3	74.6	130.9	2.0
	Establishments with 75 percent specialization or more in class	59	2.0	17.9	1.7	3.1	14.2	32.1	36.6	69.9	0.9
2448	**Wood pallets and skids:**										
	Entire industry	1 290	20.3	163.8	17.9	32.1	126.3	303.1	397.3	698.0	21.3
	Establishments with 75 percent specialization or more	1 166	16.9	134.6	14.9	26.4	103.3	247.6	328.5	573.8	17.8
2449	**Wood containers, n.e.c.:**										
	Entire industry	263	8.9	67.2	8.0	15.5	53.7	120.4	134.4	255.8	2.9
	Establishments with 75 percent specialization or more	245	8.0	59.1	7.2	14.0	47.6	106.0	120.7	227.6	2.7
24491	Wirebound boxes:										
	Establishments with this product class primary	56	5.6	39.5	5.0	10.0	31.3	75.6	78.1	152.9	1.9
	Establishments with 75 percent specialization or more in class	45	4.1	27.7	3.6	7.1	21.8	52.8	57.9	110.5	1.2
24493	Veneer and plywood containers, except boxes:										
	Establishments with this product class primary	28	1.1	7.1	1.0	1.9	6.1	11.1	10.2	20.9	0.3
	Establishments with 75 percent specialization or more in class	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24495	Slack and tight cooperage:										
	Establishments with this product class primary	24	1.4	14.6	1.3	2.3	11.8	21.9	36.5	60.4	0.5
	Establishments with 75 percent specialization or more in class	22	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2491	**Wood preserving:**										
	Entire industry	457	12.6	126.1	9.9	19.7	82.9	327.1	657.5	962.6	30.3
	Establishments with 75 percent specialization or more	436	11.8	119.8	9.2	18.4	77.8	305.4	627.1	910.3	28.1
24912	Treated wood poles, piles, and posts:										
	Establishments with this product class primary	120	5.2	53.6	4.1	8.4	37.1	126.7	250.5	376.6	10.7
	Establishments with 75 percent specialization or more in class	81	2.8	28.4	2.2	4.4	19.1	65.7	125.7	192.7	5.0
24913	Other treated wood products:										
	Establishments with this product class primary	127	4.9	48.4	3.7	7.2	30.2	139.7	312.2	433.4	9.5
	Establishments with 75 percent specialization or more in class	94	3.6	35.2	2.7	5.3	21.5	96.6	234.5	320.6	6.0
24919	Contract wood preserving (wood owned by others):										
	Establishments with this product class primary	29	0.7	7.0	0.6	1.2	4.4	22.3	23.6	45.9	1.5
	Establishments with 75 percent specialization or more in class	25	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2492	**Particleboard:**										
	Entire industry	63	6.2	79.1	5.0	10.9	60.3	207.2	245.3	452.9	32.5
	Establishments with 75 percent specialization or more	58	6.2	79.1	5.0	10.9	60.3	207.5	245.2	452.9	(D)
24921	Particleboard, platen type, mat formed:										
	Establishments with this product class primary	51	6.1	77.6	4.9	10.6	59.2	205.0	241.4	446.5	20.2
	Establishments with 75 percent specialization or more in class	51	6.1	77.6	4.9	10.6	59.2	205.0	241.4	446.5	20.2
2499	**Wood products, n.e.c.:**										
	Entire industry	3 050	64.6	608.1	53.9	102.3	438.0	1 265.5	1 302.8	2 557.6	116.9
	Establishments with 75 percent specialization or more	2 894	56.5	527.6	47.1	89.4	380.5	1 102.4	1 133.5	2 219.4	106.1
24991	Mirror and picture frames:										
	Establishments with this product class primary	175	10.2	90.3	8.1	15.2	59.7	175.2	151.6	322.6	22.7
	Establishments with 75 percent specialization or more in class	157	9.0	80.3	7.2	13.3	52.7	155.4	137.6	288.7	22.1
24994	Cork products:										
	Establishments with this product class primary	13	0.9	8.9	0.7	1.3	6.0	20.5	19.6	39.1	0.9
	Establishments with 75 percent specialization or more in class	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24996	Hardboard products, made from own hardboard:										
	Establishments with this product class primary	31	8.1	108.5	6.6	14.1	83.9	255.7	266.3	524.6	38.6
	Establishments with 75 percent specialization or more in class	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24997	Medium density fiberboard (MDF):										
	Establishments with this product class primary	16	1.6	19.2	1.3	2.9	13.9	35.1	56.8	92.5	6.9
	Establishments with 75 percent specialization or more in class	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24998	Hardboard products, made from purchased hardboard:										
	Establishments with this product class primary	81	3.8	38.0	2.9	5.2	22.5	80.4	116.4	199.0	3.4
	Establishments with 75 percent specialization or more in class	69	2.8	29.0	2.0	3.9	17.2	65.0	88.9	155.1	2.5
24999	Miscellaneous wood products, n.e.c.:										
	Establishments with this product class primary	580	28.0	244.1	23.8	45.6	180.7	507.0	513.6	1 009.7	28.3
	Establishments with 75 percent specialization or more in class	506	23.0	198.1	19.6	37.8	147.9	417.8	420.7	829.2	23.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2441	Nailed wood boxes and shook	1977.. 263.3	220.2	27.8	15.2	89	265.3	220.2	45.1	83
		1972.. 237.9	201.6	28.8	7.5	88	232.8	201.6	31.2	87
		1967.. 273.8	222.4	30.8	20.7	88	255.3	222.4	32.9	87
2448	Wood pallets and skids	1977.. 698.0	587.9	63.5	46.6	90	642.9	587.9	55.0	91
		1972.. 295.4	253.7	24.3	17.4	91	287.4	253.7	33.7	88
		1967.. (NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2449	Wood containers, n.e.c	1977.. 255.8	228.5	16.1	11.1	93	235.3	228.5	6.8	97
		1972.. 240.2	215.4	12.9	11.9	94	218.7	215.4	3.3	98
		1967.. 255.7	221.2	21.2	13.4	91	236.6	221.2	15.4	93
2491	Wood preserving	1977.. 962.6	869.2	25.8	67.6	97	892.2	869.2	23.0	97
		1972.. 475.8	443.8	5.8	26.2	99	461.3	443.8	17.5	96
		1967.. 344.2	321.5	6.4	16.3	98	327.5	321.5	6.0	98
2492	Particleboard	1977.. 452.9	450.3	1.0	1.6	99	476.5	450.3	26.2	95
		1972.. 295.4	267.3	25.1	3.0	91	286.2	267.3	18.9	93
		1967.. (NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2499	Wood products, n.e.c	1977.. 2,557.6	2,312.2	154.3	91.0	94	2,488.7	2,312.2	176.5	93
		1972.. 1,518.9	1,345.0	105.4	68.5	93	1,479.1	1,345.0	134.1	91
		1967.. (NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

n.e.c. Not elsewhere classified (NA) Not available.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Nailed wood boxes and shook (SIC 2441)	Wood pallets and skids (SIC 2448)	Wood containers, n.e.c. (SIC 2449)	Wood preserving (SIC 2491)	Particleboard (SIC 2492)	Wood products, n.e.c. (SIC 2499)	All other industries
	Total	(X)	263.3	698.0	255.8	962.6	452.9	2,557.6	(X)
	Primary products	(X)	220.2	587.9	228.5	869.2	450.3	2,312.2	(X)
	Secondary products	(X)	27.8	63.5	16.1	25.8	1.0	154.3	(X)
	Miscellaneous receipts	(X)	15.2	46.6	11.1	67.6	1.6	91.0	(X)
2441-	Nailed wood boxes and shook	265.3	220.2	(D)	3.6	-	-	(D)	25.5
24411	Nailed or lock-corner wooden boxes	93.8	75.8	7.1	(D)	-	-	(D)	(D)
24412	Wooden box and crate shook	127.0	100.5	8.4	(D)	-	-	(D)	15.0
24410	Nailed wood boxes and shook, n.s.k	44.5	43.9	(D)	-	-	-	(D)	(D)
24480	Wood pallets and skids	642.9	(D)	587.9	6.9	(D)	-	(D)	28.0
2449-	Wood containers, n.e.c	235.3	(D)	(D)	228.5	-	-	(D)	2.0
24491	Wirebound boxes	129.1	2.0	(D)	126.3	-	-	-	(D)
24493	Veneer and plywood containers, except boxes	27.3	(D)	.3	(D)	-	-	-	1.6
24495	Slack and tight cooperage	58.1	(D)	(D)	(D)	-	-	-	(D)
24490	Wood containers, n.e.c., n.s.k	20.8	(D)	(D)	20.1	-	-	(D)	(D)
2491-	Wood preserving	892.2	(D)	(D)	-	869.2	-	(D)	21.3
24912	Treated wood poles, piles, and posts	305.5	-	-	-	301.5	-	(D)	(D)
24913	Other treated wood products	418.3	(D)	.2	-	402.6	-	(D)	15.4
24919	Contract wood preserving (wood owned by others)	68.6	(D)	(D)	-	(D)	-	-	(D)
24910	Wood preserving, n.s.k	99.8	-	-	-	(D)	-	-	(D)
2492-	Particleboard	476.5	-	-	-	-	450.3	(D)	(D)
24921	Particleboard, platen type, mat formed	466.0	-	-	-	-	443.6	(D)	(D)
24922	Particleboard, extruded type	(D)	-	-	-	-	-	-	(D)
24920	Particleboard, n.s.k	(D)	-	-	-	-	6.7	(D)	(D)
2499-	Wood products, n.e.c	2,488.7	(D)	(D)	-	-	(D)	2,312.2	173.8
24991	Mirror and picture frames	314.6	(D)	-	-	-	-	300.4	(D)
24994	Cork products	32.8	-	(D)	-	-	-	32.0	(D)
24996	Hardboard products, made from own hardboard	508.0	-	-	-	-	-	486.5	21.5
24997	Medium density fiberboard (MDF)	84.2	-	-	-	-	(D)	(D)	(D)
24998	Hardboard products, made from purchased hardboard	171.3	(D)	(D)	-	-	(D)	(D)	4.2
24999	Miscellaneous wood products, n.e.c	1,005.9	(D)	(D)	-	-	-	887.3	117.6
24990	Wood products, n.e.c., n.s.k	372.0	(D)	(D)	-	-	-	356.5	14.7
	Other shipments by 4-digit product group:								
2411-	Logging products and contract logging	(X)	(D)	2.0	-	(D)	-	.4	(X)
2421-	Sawmill and planing mill products	(X)	3.9	30.7	(D)	(D)	(D)	14.3	(X)
2426-	Hardwood dimension and flooring	(X)	(D)	.9	-	-	(D)	5.2	(X)
2431-	Millwork	(X)	(D)	(D)	-	(D)	-	1.1	(X)
2434-	Wood kitchen cabinets	(X)	(D)	(D)	(D)	(D)	-	3.9	(X)
2435-	Hardwood veneer and plywood	(X)	(D)	(D)	-	-	-	(D)	(X)
2436-	Softwood veneer and plywood	(X)	-	(D)	-	(D)	-	(D)	(X)
2439-	Structural wood members, n.e.c	(X)	(D)	(D)	(D)	(D)	-	(D)	(X)
2511-	Wood household furniture	(X)	(D)	(D)	-	-	-	(D)	(X)
2541-	Wood partitions and fixtures	(X)	-	-	-	-	-	(D)	(X)
2645-	Die-cut paper and board	(X)	-	-	-	-	-	(D)	(X)
2661-	Building paper and board	(X)	-	-	-	-	-	(D)	(X)
2869-	Industrial organic chemicals, n.e.c	(X)	-	-	-	-	-	(D)	(X)
3079-	Miscellaneous plastics products	(X)	-	-	(D)	-	-	(D)	(X)
3231-	Products of purchased glass	(X)	-	-	-	-	-	5.4	(X)
3442-	Metal doors, sash, and trim	(X)	-	-	-	-	-	9.2	(X)
3499-	Fabricated metal products, n.e.c	(X)	-	(D)	(D)	-	-	(D)	(X)
3949-	Sporting and athletic goods, n.e.c	(X)	-	-	-	-	-	2.3	(X)
	Miscellaneous receipts:								
93000 00	Contract work	(X)	(D)	(D)	2.5	11.2	(D)	11.9	(X)
99980 13	Sales of scrap and refuse	(X)	(D)	.9	1.1	3.6	(D)	4.7	(X)
99980 15	Bark	(X)	-	-	-	(D)	-	-	(X)
99980 17	Sales of mill residues other than bark	(X)	-	.2	-	(D)	(D)	(D)	(X)
99980 98	Other miscellaneous receipts, including receipts for repair work, etc	(X)	(D)	2.5	(D)	5.4	-	3.0	(X)
99980 00	Other miscellaneous receipts, n.s.k	(X)	.5	(D)	(D)	(D)	-	(D)	(X)
99989 00	Resales	(X)	11.3	42.0	6.1	46.0	(Z)	69.0	(X)

See footnotes at end of table.

Table 5c. **Industry-Product Analysis — Shipments by Product Class and Industry: 1977** — Con.

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Industry and miscellaneous receipts	Other industries	1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:			Other industries with over $5 million shipments of primary products--Con.	
2441-	2421 Sawmills and planing mills, general	(D)	2499-	2421 Sawmills and planing mills, general	(D)
	2431 Millwork	5.8		2431 Millwork	(D)
				2435 Hardwood veneer and plywood	(D)
2448-	2421 Sawmills and planing mills, general	(D)		2436 Softwood veneer and plywood	6.3
				2621 Paper mills	(D)
2491-	2421 Sawmills and planing mills, general	(D)		2649 Converted paper products	(D)
				2661 Building paper and board mills	(D)
				3079 Miscellaneous plastics products	(D)
2492-	2421 Sawmills and planing mills, general	(D)		3296 Mineral wool	15.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972**

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments[1]	
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)
	NAILED WOOD BOXES AND SHOOK						
2441- --	Total	.....	(NA)	(X)	265.3	(X)	232.8
24411 --	Nailed or lock-corner wooden boxes	.....	(NA)	(X)	93.8	(X)	86.5
	Made from lumber:						
24411 25	For fruits, vegetables, milk bottles and cartons, and soft drink bottles	Mil. bd. ft. (lumber consumed).	16	*76.3	25.7	(S)	14.4
24411 51	For industrial and other uses	Mil. bd. ft. (lumber consumed).	43	105.7	31.1	**218.1	51.0
24411 65	Made from veneer and plywood for fruits, vegetables, and industrial and other uses	Mil. sq. ft. (surface measure).	16	78.7	11.6	16.2	2.4
24411 83	Combination wood and fiber boxes, including wood and part wooden cigar boxes	Mil. containers	13	(S)	9.1	**22.3	4.3
24411 00	Nailed or lock-corner wooden boxes, n.s.k.	.....	(NA)	(X)	16.3	(X)	14.3
24412 --	Wooden box and crate shook	.....	(NA)	(X)	127.0	(X)	100.0
	Made from lumber:						
24412 11	For fruits and vegetables	Mil. bd. ft.	21	184.1	49.6	(S)	46.4
24412 15	For industrial and other uses	Mil. bd. ft.	69	*147.0	46.3	**182.0	34.5
24412 25	Made from veneer and plywood for fruits, vegetables, meat, industrial, and other uses	Mil. sq. ft. (surface measure).	19	(S)	18.6	(S)	15.1
24412 00	Wooden box and crate shook for fruits, vegetables, and industrial uses, n.s.k.	.....	(NA)	(X)	12.5	(X)	4.0
24410 00	Nailed wooden boxes and shook, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	30.8	(X)	29.4
24410 02	Nailed wooden boxes and shook, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	13.7	(X)	16.9
	WOOD PALLETS AND SKIDS						
2448- --	Total	.....		(X)	[3]642.9	(X)	[3]287.4
24480 --	Pallets and skids:						
24480 62	Pallets, wooden, flat	Million units.	202	**73.8	300.9	**74.3	214.4
24480 64	Pallet containers, including wood cargo containers	↑	29	(S)	22.9	**2.4	14.1
24480 65	Skids, wooden	↓	73	(S)	52.2	7.3	25.4
24480 66	Pallets and skids, wood and metal combination	Million units.	26	(S)	25.6	3.8	15.3
24480 00	Wood pallets and skids, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	[3]162.5	(X)	[3]18.2
24480 02	Wood pallets and skids, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	[3]78.8	(X)	[3]-
	WOOD CONTAINERS, N.E.C.						
2449- --	Total	.....	(NA)	(X)	235.3	(X)	218.7
24491 --	Wirebound boxes made from lumber, veneer, and plywood	.....	(NA)	(X)	129.1	(X)	129.9
24491 11	Made from lumber	Million boxes.	15	7.9	48.2	**5.3	23.3
	Made from veneer and plywood:	↑					
24491 21	For fruits and vegetables	↓	19	58.4	44.7	**82.6	37.7
24491 41	For meat (other than canned) and poultry		4	12.2	10.4	**23.6	13.3
24491 71	For industrial and other uses	Million boxes.	12	5.1	23.1	**20.3	34.7
24491 00	Wirebound boxes made from lumber, veneer, and plywood, n.s.k.	.....	(NA)	(X)	2.7	(X)	20.9
24493 --	Veneer and plywood containers, except boxes and crates:						
24493 21	Veneer and plywood containers, including pails, drums, tubs, fruit and vegetable baskets, and hampers, etc	Million units.	19	(S)	27.3	(S)	20.7

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972**—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Qauntity[2]	Value (million dollars)	Quantity	Value (million dollars)
2449- --	WOOD CONTAINERS, N.E.C.--Con.						
24495 --	Slack and tight cooperage	.....	(NA)	(X)	58.1	(X)	65.5
24495 12	Slack cooperage (hogsheads, barrels, and kegs, including recoopered used slack barrels and kegs)	Million units.	7	1.2	9.6	**2.5	5.8
	Tight cooperage (hogsheads, barrels, and kegs for bourbon and other whiskey):						
24495 53	New		4	1.1	43.5	**1.6	45.4
24495 55	Recoopered used						
24495 59	Other tight cooperage, including recoopered used tight barrels, kegs, etc	Million units.	5	(S)	4.3	(S)	8.9
24495 00	Slack and tight cooperage, n.s.k	.....	(NA)	(X)	.7	(X)	5.4
24490 00	Wood containers, n.e.c., n.s.k., typically for companies with 5 employees or more (see note)	.....	(NA)	(X)	11.3	(X)	-
24490 02	Wood containers, n.e.c., n.s.k., typically for companies with less than 5 employees (see note)	.....	(NA)	(X)	9.5	(X)	2.6

1977 product code	Product	Unit of measure	Number of companies with shipments of $100,000 or more	Product shipments[1]	
				Quantity[2]	Value (million dollars)
			1977		
	WOOD PRESERVING				
2491- --	Total	.....	(NA)	(X)	892.2
	Wood owned and treated by same establishments:				
24912 --	Wood poles, piles, and posts	.....	(NA)	(X)	305.5
24912 11	Not over 15 feet in length	.....	36	(S)	45.5
24912 13	Over 15 feet in length	Thousands.....	53	**3,510.9	220.7
24912 00	Wood poles, piles, and posts, n.s.k	.....	(NA)	(X)	39.3
24913 --	Other wood products owned and treated by same establishment	.....	(NA)	(X)	418.3
24913 13	Lumber and wood siding, rough and worked, including softwood flooring and crossarms.	Mil. bd. ft...	67	*556.0	186.4
24913 15	Wood fence pickets, paling, and rails, whether or not assembled into fence sections.	Thousands.....	7	(X)	4.4
24913 11	Railway crossties and mine ties, except switch or bridge	.....	25	11,772.7	137.5
24913 17	Switch and bridge ties	Thousands.....	9	**1,405.8	11.9
24913 19	Other wood treated products, n.e.c., including molding and hardwood flooring	.....	14	(X)	28.6
24913 00	Other wood products owned and treated by same establishments, n.s.k	.....	(NA)	(X)	49.5
24919 --	Contract wood preserving:				
24919 11	Contract wood preserving (receipts for treating wood owned by other establishments)	.....	46	(X)	68.6
24910 00	Wood preserving, n.s.k., typically for companies with 5 employees or more (see note)	.....	(NA)	(X)	72.7
24910 02	Wood preserving, n.s.k., typically for companies with less than 5 employees (see note)	.....	(NA)	(X)	27.1
			1972		
	WOOD PRESERVING				
2491- --	Total	.....	(X)	(X)	461.3
24911 --	Wood owned and treated by same establishment	.....	(X)	(X)	394.3
	Receipts from sales and transfers of wood owned and treated at same establishment:				
24911 12	Poles and piling	.....	(X)	(X)	196.7
24911 15	Railway crossties and switch ties	Thousands.....	(X)	12,500.0	70.5
24911 18	Crossarms and sawn lumber, except railway ties	Mil. bd. ft...	(X)	416.0	77.5
24911 19	Other wood products owned and treated at same establishment	.....	(X)	(X)	48.7
24911 00	Wood owned and treated by same establishment, n.s.k	.....	(X)	(X)	.9
24919 --	Contract wood preserving:				
24919 11	Contract wood preserving (receipts for treating wood owned by other establishments)	.....	(X)	(X)	29.1
24910 00	Wood preserving, n.s.k., typically for companies with 5 employees or more (see note)	.....	(X)	(X)	17.8
24910 02	Wood preserving, n.s.k., typically for companies with less than 5 employees (see note)	.....	(X)	(X)	20.2

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	PARTICLEBOARD						
2492- --	Total		(NA)	(X)	476.5	(X)	286.2
24921 --	Particleboard, platen type (mat-formed)		(NA)	(X)	466.0		
24921 03	Floor underlayment	Mil. sq. ft. (3/4" basis).	19	1,068.2	122.0		
24921 05	Mobile home decking		12	328.3	40.8		
24921 07	Shelving		10	*140.6	22.2		
24921 09	Door core		6	173.7	21.4		
	Other industrial board:						
24921 11	3/4-inch thick		17	757.8	98.7		
24921 13	5/8-inch thick		15	218.8	33.2		
24921 15	1/2-inch thick		13	165.3	24.8	[4]2,981.2	[4]286.2
24921 17	All other		16	538.3	81.5		
24921 19	Other platen type, including stepping, siding, etc	Mil. sq. ft. (3/4" basis).	6	120.0	18.5		
24921 00	Particleboard, platen type, n.s.k		(NA)	(X)	2.9		
24922 --	Particleboard, extruded type:						
24922 03	Particleboard, extruded type	Mil. sq. ft. (3/4" basis).	1	(D)	(D)		
24920 00	Particleboard, n.s.k		(NA)	(X)	(D)		
	WOOD PRODUCTS, N.E.C.						
2499- --	Total		(NA)	(X)	2,488.7	(X)	1,479.1
24991 --	Mirror and picture frames		(NA)	(X)	314.6	(X)	173.0
	Frames for mirrors and pictures:						
24991 11	Wood		59	(X)	90.4	(X)	62.8
24991 15	Metal		17	(X)	82.6	(X)	40.9
	Finished moldings for mirrors and pictures:						
24991 31	Wood	Mil. lin. ft.	24	**106.5	31.7	(S)	20.0
24991 41	Other than wood (metal, plastics, fibers)	Mil. lin. ft.	7	(S)	31.8		
	Framed pictures:						
24991 61	Wood		27	(X)	43.5	(X)	45.5
24991 71	Other than wood (metal, plastics, fibers)		12	(X)	11.9		
24991 00	Mirror and picture frames, n.s.k		54	(X)	22.7	(X)	3.8
24994 --	Cork products		(NA)	(X)	32.8	(X)	18.1
24994 21	Cork, natural and waste, including granulated and ground	1,000 lb.	4	9,985.4	5.6	(X)	([5])
24994 23	Cork disks and washers	1,000 lb.	1	(S)	26.7	(S)	2.1
24994 98	Other articles made of natural, granulated, and composition cork (shoe fittings, life-preserver blocks, cork flats, life preservers, expansion joint materials, newspaper mats, novelties, sheets, blocks, stoppers of all kinds, insulation products, and floor and wall coverings)		11			(X)	[5]15.6
24994 00	Cork products, n.s.k		(NA)	(X)	.5	(X)	.4
24996 --	Fabricated hardboard products made from hardboard produced at same establishment		(NA)	(X)	508.0	(X)	258.5
24996 11	Prefinished panelings, except laminated and tiled wallboard, including siding and wall panels that are plastics coated, embossed, painted, grooved, printed, varnished, or shellacked (see code 24998 03)	Mil. sq. ft. (1/8" basis).	13	4,943.7	366.0	2,504.9	148.8
24996 23	Dimension and parts, including cut to size and molded products (see code 24998 07)		7	152.4	16.0	[6]697.7	[6]38.9
24996 31	Perforated board, including both prefinished perforated board and perforated board that is not face finshed (see code 24998 11)		8	131.1	9.8	111.5	6.8
24996 43	Panel stock, including interior and exterior panels and siding not face finished	Mil. sq. ft. (1/8" basis).	11	1,501.4	113.1	[6]1,264.9	[6]54.2
24996 00	Fabricated hardboard products made from hardboard produced at same establishment		(NA)	(X)	3.1	(X)	9.8
24997 --	Medium density fiberboard (MDF)		(NA)	(X)	84.2		
	Not coated:						
24997 03	Standard panel	Mil. sq. ft. (3/4" basis).	6	186.0	34.3		
24997 07	Cut to size		10	*90.2	19.8	(6)	(6)
	Coated or prefinished:						
24997 11	Standard panel		4	230.1	28.9		
24997 13	Cut to size	Mil. sq. ft. (3/4" basis).	7				
24997 00	Medium density fiberboard (MDF), n.s.k		(NA)	(X)	1.2		

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972 — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
2499- --	WOOD PRODUCTS, N.E.C.--Con.						
24998 --	Fabricated hardboard products made from purchased hardboard....	.....	(NA)	(X)	171.3	(X)	137.3
24998 03	Prefinished paneling, except laminated and tiled wallboard, including siding and wall panels that are plastics coated, embossed, painted, grooved, printed, varnished, or shellacked (see code 24996 11).....	Mil. sq. ft. (1/8" basis).	19	*419.1	90.1	1,273.5	80.0
24998 07	Dimension and parts, including cut to size and molded products (see code 24996 23).....		15	(S)	35.3	(S)	39.3
24998 11	Perforated board, including both prefinished perforated board and perforated board that is not face finished (see code 24996 31).....		5	**55.9	9.7	(S)	2.2
24998 13	Other fabricated hardboard products.....	Mil. sq. ft. (1/8" basis).	14	113.7	22.3	(S)	15.8
24998 00	Fabricated hardboard products made from purchased hardboard, n.s.k.....	.....	(NA)	(X)	13.9	(X)	(7)
24999 --	Miscellaneous wood products, n.e.c.....	.....	(NA)	(X)	1,005.9	(X)	564.3
24999 11	Jewelry boxes, silver chests, instrument cases, cigar and cigarette boxes, microscope cases, tool and utensil cases and similar boxes, cases, and chests.....	.....	18	(X)	19.1	(X)	58.5
24999 13	Wood carvings.....	.....	14	(X)	8.0		
24999 15	Household type utensils of wood and parts thereof, n.e.c., including coat and garment hangers, wooden ware, bookends, ash trays, etc.....	.....	37	(X)	44.1		
24999 17	Wood fences, palings, and rails (assembled into fence sections).....	.....	22	(X)	18.3	(X)	14.5
24999 19	Toothpicks, skewers, candy sticks, ice cream sticks, tongue depressors, drink mixers, and similar small wares.....	.....	15	(X)	27.3	(X)	8 20.2
24999 23	Firewood and fuel wood containing an added binder, including compressed logs.....	.....	13	(X)	38.3	(X)	(8)
24999 25	Bamboo, rattan, willow and chip, basketwork, wicker work, and related products of fibrous vegetable substances.....	.....	9	(X)	10.3	(X)	(9)
24999 27	Spools and bobbins, including textile machinery spools.....	.....	5	(X)	4.3	(X)	(9)
	Lasts for boots and shoes:						
24999 31	Wood.....	Mil. pairs....	2	(S)	2.0	(S)	7.7
24999 33	Materials other than wood.....	Mil. pairs....	2				
24999 39	Remodeled last sole patterns, forms, shoe trees, and stretchers for boots and shoes.....	.....	1	(X)	(10)	(X)	1.6
	Handtool handles:						
24999 51	Striking tool handles (axe, pick, hammer, etc.).....	.....	17	(X)	32.8	(X)	15.9
24999 53	Lifting and pulling tool handles (fork, rake, spade, shovel, etc.).....	.....	8	(X)	11.3	(X)	10.5
24999 55	Other hand tool handles (peavey, scythe, shunt pole, cant hook, and other mechanics; farm, garden, household, etc.).	.....	17	(X)	7.9	(X)	3.4
24999 57	Broom, mop, and paint brush handles.....	.....	19	(X)	27.5	(X)	19.7
24999 59	Other handles.....	.....	11	(X)	7.4	(X)	8.4
24999 60	Wooden tools, tool bodies, and backs for brooms, mops, and brushes.....	.....	4	(X)	2.7	(X)	(9)
24999 61	Clothespins.....	Mil. gross....	5	**8.6	7.4	e6.7	6.2
24999 62	Dowels and dowel pins (plain or sanded, grooved, or otherwise advanced in condition).....	.....	27	(X)	33.1	(X)	25.8
24999 63	Pencil slats.....	.....	5	(X)	45.3	(X)	15.9
24999 64	Tanks and vats, wooden, except coopered.....	.....	8	(X)	11.0	(X)	4.8
24999 65	Prefinished particleboard made from purchased particleboard (see code 2492).....	.....	25	(X)	84.9	(X)	(9)
24999 71	Stepladders.....	Mil. lin. ft..	28	**19.1	38.3	e21.0	21.3
24999 75	Rung ladders (nonextension, extension, and scaffolding ladders).....	Mil. lin. ft..	26	(S)	25.8	(X)	10.8
24999 79	Other scaffolding equipment (horses, scaffold jacks, extension planks, window jacks, etc.).....	.....	3	(X)	3.0		
24999 85	Wooden reels for wire and cable.....	.....	23	(X)	62.7	(X)	43.9
24999 89	Wood flour.....	Thous. tons...	16	**284.3	21.9	(S)	8.4
24999 91	Other fabricated industrial parts, except hardwood.....	Mil. bd. ft...	4	(S)	3.7	(S)	10.2
	Toilet seats:						
24999 94	Plastics, solid, and cored, including hard rubber.....	Millions.....	8	(S)	38.3	5.3	28.2
24999 97	Wood, including molded wood.....	Millions.....	5	9.8	31.1	14.8	33.5
24999 98	Miscellaneous wooden goods, including articles of wood not elsewhere specified and wood turnings, except handles and spools.....	.....	244	(X)	10 319.9	(X)	9 149.3
24999 00	Miscellaneous wood products, n.e.c., n.s.k.....	.....	(NA)	(X)	18.3	(X)	7 45.6
24990 00	Wood products, n.e.c., n.s.k., typically for companies with 5 employees or more (see note).....	.....	(NA)	(X)	278.6	(X)	173.8
24990 02	Wood products, n.e.c., n.s.k., typically for companies with less than 5 employees (see note).....	.....	(NA)	(X)	93.4	(X)	154.1

Footnotes are on next page.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. [e]Estimated. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]1977 and 1972 data for wood pallets and skids are not strictly comparable because of revisions in the 1972 Standard Industrial Classification. In 1972, the Wood Pallets and Skids industry, which had been classified under product class 24992 as part of industry 2499, was newly defined as a separate industry. However, the data for many small establishments remained with data for industry 2499. The amount of that data is not known. For 1977, data for these small establishments are included in data for industry 2448.

[4]For 1972, detailed production and shipments data were published in Current Industrial Reports Series MA-24L, Particleboard. This series was discontinued in 1976.

[5]For 1972, product code 24994 21 was combined with product code 24994 98.

[6]For 1972, data for medium density fiberboard (MDF) was included with product codes 24996 23 and 24996 43; comparable data for product codes 24997 03, 24997 07, 24997 11, 24997 13, and 24997 00 are not available.

[7]For 1972, product code 24998 00 was included with product code 24999 00.

[8]For 1972, product code 24999 23 was combined with product code 24999 19 to avoid disclosing operations of individual companies.

[9]For 1972, product codes 24999 25, 24999 27, 24999 60, and 24999 65 were combined with product code 24999 98.

[10]For 1977, product code 24999 39 was combined with product code 24999 98 to avoid disclosing operations of individual companies.

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
24411, NAILED OR LOCK-CORNER WOODEN BOXES		
United States	93.8	86.5
Middle Atlantic Division:		
New York	3.9	7.7
Pennsylvania	8.7	2.7
East North Central Division:		
Ohio	2.2	2.7
Illinois	2.1	1.7
Michigan	2.4	(NA)
Wisconsin	3.2	(NA)
West North Central Division:		
Minnesota	2.1	3.0
South Atlantic Division:		
Virginia	9.1	BB
West South Central Division:		
Arkansas	6.5	CC
Texas	7.7	9.5
Pacific Division:		
Washington	2.9	(NA)
California	16.1	8.1
24412, WOODEN BOX AND CRATE SHOOK		
United States	127.0	100.0
Middle Atlantic Division:		
New York	3.0	AA
Pennsylvania	2.5	2.2
East North Central Division:		
Ohio	2.4	(NA)
Indiana	2.3	(NA)
Michigan	4.7	1.6
Wisconsin	3.5	3.4
South Atlantic Division:		
Virginia	2.8	BB
Georgia	2.3	2.8
Florida	5.1	BB
West South Central Division:		
Texas	8.9	2.7
Pacific Division:		
Washington	12.0	4.9
California	48.6	50.5
24491, WIREBOUND BOXES		
United States	129.1	129.9
East North Central Division:		
Michigan	4.2	4.2
Wisconsin	7.0	5.9
South Atlantic Division:		
Georgia	22.8	18.7
Florida	17.5	14.2
East South Central Division:		
Tennessee	8.9	CC
Mississippi	17.0	20.3
West South Central Division:		
Texas	5.1	8.3
24493, VENEER AND PLYWOOD CONTAINERS, EXCEPT BOXES		
United States	27.3	20.7
South Atlantic Division:		
North Carolina	5.4	5.2
24495, SLACK AND TIGHT COOPERAGE		
United States	58.1	65.5
East South Central Division:		
Kentucky	35.5	FF
24912, TREATED WOOD POLES, PILES, AND POSTS		
United States	305.5	(NA)
New England Division:		
Minnesota	10.2	(NA)
Missouri	5.7	(NA)
South Atlantic Division:		
Virginia	5.9	(NA)
North Carolina	13.9	(NA)
Georgia	32.5	(NA)
Florida	12.9	(NA)
East South Central Division:		
Alabama	29.7	(NA)
Mississippi	23.9	(NA)
West South Central Division:		
Arkansas	20.0	(NA)
Louisiana	9.0	(NA)
Oklahoma	4.3	(NA)
Texas	18.1	(NA)
Mountain Division:		
Montana	3.0	(NA)
Idaho	7.4	(NA)
Pacific Division:		
Washington	22.5	(NA)
Oregon	23.5	(NA)
California	29.4	(NA)
24913, OTHER TREATED WOOD PRODUCTS		
United States	418.3	(NA)
Middle Atlantic Division:		
Pennsylvania	24.7	(NA)
East North Central Division:		
Indiana	12.1	(NA)
Illinois	16.6	(NA)
West North Central Division:		
Minnesota	8.1	(NA)
South Atlantic Division:		
Virginia	16.1	(NA)
North Carolina	6.4	(NA)
South Carolina	43.4	(NA)
Georgia	25.1	(NA)
Florida	22.2	(NA)
East South Central Division:		
Alabama	30.0	(NA)
Mississippi	47.3	(NA)
West South Central Division:		
Arkansas	12.3	(NA)
Louisiana	12.9	(NA)
Texas	24.0	(NA)
Pacific Division:		
Washington	9.7	(NA)
Oregon	14.0	(NA)
California	18.9	(NA)

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** - Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
24919, CONTRACT WOOD PRESERVING (WOOD OWNED BY OTHERS)		
United States	68.6	29.1
Middle Atlantic Division:		
Pennsylvania	3.5	(NA)
South Atlantic Division:		
Georgia	2.5	(NA)
Florida	2.5	(NA)
East South Central Division:		
Alabama	2.6	(NA)
West South Central Division:		
Texas	4.4	BB
Pacific Division:		
Washington	4.6	1.1
Oregon	2.1	2.2
California	8.2	2.4
24921, PARTICLEBOARD, PLATEN TYPE, MAT FORMED		
United States	466.0	(NA)
South Atlantic Division:		
Virginia	41.9	(NA)
Georgia	34.6	(NA)
East South Central Division:		
Alabama	23.1	(NA)
West South Central Division:		
Louisiana	26.2	(NA)
Texas	25.5	(NA)
Pacific Division:		
Oregon	136.1	(NA)
California	43.6	(NA)
24991, MIRROR AND PICTURE FRAMES		
United States	314.6	173.0
Middle Atlantic Division:		
New York	28.2	19.1
New Jersey	14.7	10.2
Pennsylvania	2.6	2.1
East North Central Division:		
Illinois	88.4	58.6
Michigan	11.0	6.6
Wisconsin	4.4	2.6
South Atlantic Division:		
Virginia	8.9	5.0
North Carolina	3.9	4.6
Georgia	6.7	3.8
East South Central Division:		
Mississippi	21.4	EE
Pacific Division:		
California	49.7	FF
24996, HARDBOARD PRODUCTS, MADE FROM OWN HARDBOARD		
United States	508.0	258.5
Pacific Division:		
Oregon	57.7	FF
24997, MEDIUM DENSITY FIBERBOARD (MDF)		
United States	84.2	(NA)
East North Central Division:		
Indiana	2.5	(NA)
24998, HARDBOARD PRODUCTS, MADE FROM PURCHASED HARDBOARD		
United States	171.3	(NA)
Middle Atlantic Division:		
New York	4.0	(NA)
East North Central Division:		
Illinois	30.2	(NA)
Michigan	23.2	(NA)
Wisconsin	3.6	(NA)
Pacific Division:		
California	12.6	(NA)
24999, MISCELLANEOUS WOOD PRODUCTS, N.E.C.		
United States	1,005.9	(NA)
New England Division:		
Maine	76.2	(NA)
New Hampshire	23.9	(NA)
Vermont	18.1	(NA)
Massachusetts	23.7	(NA)
Middle Atlantic Division:		
New York	45.5	(NA)
New Jersey	13.2	(NA)
Pennsylvania	39.5	(NA)
East North Central Division:		
Ohio	39.6	(NA)
Indiana	33.9	(NA)
Illinois	23.0	(NA)
Michigan	46.7	(NA)
Wisconsin	42.4	(NA)
West North Central Division:		
Minnesota	14.9	(NA)
Iowa	7.9	(NA)
Missouri	21.9	(NA)
South Atlantic Division:		
Virginia	6.8	(NA)
North Carolina	87.8	(NA)
South Carolina	15.5	(NA)
Georgia	21.2	(NA)
Florida	8.6	(NA)
East South Central Division:		
Kentucky	10.5	(NA)
Tennessee	22.6	(NA)
Alabama	18.7	(NA)
Mississippi	29.5	(NA)
West South Central Division:		
Arkansas	13.1	(NA)
Louisiana	5.7	(NA)
Oklahoma	2.1	(NA)
Texas	27.5	(NA)
Mountain Division:		
Idaho	2.4	(NA)
Pacific Division:		
Washington	28.4	(NA)
Oregon	29.7	(NA)
California	164.1	(NA)

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available. N.E.C. Not elsewhere classified.

Table 6c. **Product Classes — Value Shipped by All Producers: 1963, 1967, and 1972 to 1977**

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2441-	Nailed wood boxes and shook	265.3	245.2	228.0	284.3	210.3	232.8	255.3	189.4
24411	Nailed or lock-corner wooden boxes	93.8	(142.1)	139.6	(173.7)	81.9	86.5	111.9	83.8
24412	Wooden box and crate shook	127.0	(90.5)	(76.9)	97.7	87.7	100.0	109.1	90.2
24410	Nailed wood boxes and shook, n.s.k.	44.5	(S)	(S)	(12.9)	40.7	46.3	34.3	15.4
24480	Wood pallets and skids	642.9	580.5	551.5	622.9	(465.1)	287.4	187.0	98.7
2449-	Wood containers, n.e.c.	235.3	272.5	265.0	273.0	253.9	218.7	236.6	186.3
24491	Wirebound boxes	129.1	159.1	(158.9)	167.4	156.6	129.9	131.2	107.6
24493	Veneer and plywood containers, except boxes	27.3	(53.9)	(43.5)	35.1	22.6	20.7	27.5	29.2
24495	Slack and tight cooperage	58.1	(55.4)	56.4	65.2	64.0	65.5	77.9	49.5
24490	Wood containers, n.e.c., n.s.k.	20.8	(4.2)	6.0	(5.3)	10.7	2.6	-	-
2491-	Wood preserving	892.2	659.1	610.0	711.2	549.4	461.4	327.5	240.3
24912	Treated wood poles, piles, and posts	305.5	602.3	505.5	615.0	482.6	394.3	284.5	209.1
24913	Other treated wood products	418.3							
24919	Contract wood preserving (wood owned by others)	68.6	(61.2)	56.5	52.8	30.4	29.1	28.7	25.9
24910	Wood preserving, n.s.k.	99.8	(2)	(48.0)	(43.4)	36.4	38.0	14.3	5.3
2492-	Particleboard	476.5	352.9	352.9	381.9	406.5	286.2	89.1	54.9
24921	Particleboard, platen type, mat formed	466.0							
24922	Particleboard, extruded type	(D)	352.9	276.4	381.9	406.5	286.2	89.1	54.9
24920	Particleboard, n.s.k.	(D)							
2499-	Wood products, n.e.c.	2,488.7	2,130.7	1,764.1	1,821.5	1,697.7	1,479.1	905.3	644.0
24991	Mirror and picture frames	314.6	289.2	236.3	209.0	194.5	173.0	115.7	82.2
24994	Cork products	32.8	(24.4)	(23.1)	(26.3)	24.0	18.1	20.5	25.6
24996	Hardboard products, made from own hardboard	508.0	582.0	438.5	430.6	328.2	258.5	159.1	131.4
24997	Medium density fiberboard (MDF)	84.2							
24998	Hardboard products, made from purchased hardboard	171.3	1,096.4	940.6	958.9	837.6	701.6	464.8	340.8
24999	Miscellaneous wood products, n.e.c.	1,005.9							
24990	Wood products, n.e.c., n.s.k.	372.0	(138.7)	(125.7)	(196.7)	313.4	327.9	145.2	64.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because the estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]Withheld because estimated figure is negative. This is consequence of using difference method of estimation (see Estimating Procedures in appendix B) and of improved establishment reporting that resulted in changing classification of shipments from n.s.k. code for 1972 Census to specified 5-digit product classes for this year. Four-digit total is best estimate, even though smaller than sum of 5-digit values.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For futher explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977			1972		
			Consumption of materials received from other establishments		Materials made and consumed in same plant (quantity)	Consumption of materials received from other establishments		Materials made and consumed in same plant (quantity)
			Quantity[1]	Delivered cost (million dollars)		Quantity[1]	Delivered cost (million dollars)	
	INDUSTRY 2441, NAILED WOOD BOXES AND SHOOK							
	Materials, containers, and supplies	.....	(X)	129.4	(X)	(X)	124.9	(X)
	Logs, bolts, and unsliced flitches:							
241111	Hardwood	Million ft. (log scale).	(S)	3.4	.1	**30.1	1.7	(S)
241112	Softwood	Million ft. (log scale).	(S)	8.5	-	**62.0	4.9	(S)
	Rough lumber:							
242110	Hardwood	Million bd. ft.	*77.6	11.3	13.0	**101.3	9.2	(S)
242121	Softwood		72.9	13.2	4.1	**322.8	30.2	(S)
	Dressed lumber:							
242117	Hardwood		42.9	6.6	(X)	**28.2	3.0	(X)
242128	Softwood	Million bd. ft.	*95.4	15.9	(X)	**178.6	23.5	(X)
	Plywood:							
243601	Softwood	Million sq. ft. (3/8" basis)..	**33.3	5.9	1.3	21.6	2.4	(S)
243515	Hardwood, container type	Million sq. ft. (surf. meas.).	3.8	.7	-			
	Veneer:							
243540	Hardwood	Million sq. ft. (surf. meas.).	(D)	(D)	-	(S)	1.6	(S)
243640	Softwood	Million sq. ft.[2] (1" basis).	(D)	(D)	-			
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	Million lb.....	(D)	(D)	-			
970099	All other materials and components, parts, containers, and supplies	.....	(X)	28.5	-	(X)	17.8	(X)
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	34.2	(X)	(X)	30.6	(X)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity[1]	Delivered cost (million dollars)
	INDUSTRY 2448, WOOD PALLETS AND SKIDS					
	Materials, containers, and supplies	.....	(X)	338.6	(X)	139.2
	Logs, bolts, and unsliced flitches:					
241111	Hardwood	Million ft. (log scale).	(S)	22.9	236.6	15.2
241112	Softwood	Million ft. (log scale).	(S)	3.0	22.0	3.0
	Rough lumber:					
242110	Hardwood	Million bd. ft.	(S)	81.2	570.2	50.1
242121	Softwood		(S)	22.1	107.0	10.1
	Dressed lumber:					
242117	Hardwood		**94.7	14.2	125.3	12.6
242128	Softwood	Million bd. ft.	284.6	28.5	216.9	18.7
	Plywood:					
243601	Softwood	Million sq. ft. (3/8" basis).	*22.6	4.7		
243515	Hardwood, container type	Million sq. ft. (surf. meas.).	(X)	.9	(X)	13.8
970099	All other materials and components, parts, containers, and supplies	.....	(X)	28.8		
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	132.3	(X)	15.7

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity[1]	Delivered cost (million dollars)
	INDUSTRY 2449, WOOD CONTAINERS, N.E.C.					
	Materials, containers, and supplies	.....	(X)	122.9	(X)	[4]114.9
	Logs, bolts, and unsliced flitches:					
241111	Hardwood	Million ft. (log scale).	110.1	16.5	**84.1	6.5
241112	Softwood	Million ft. (log scale).	37.6	4.2	**52.2	4.6
	Rough lumber:					
242110	Hardwood	Million bd. ft.	191.6	26.7	**127.0	11.0
242121	Softwood	↑	31.6	3.8	**23.1	2.7
	Dressed lumber:					
242117	Hardwood	↓	20.1	2.9	32.3	3.7
242128	Softwood	Million bd. ft.	**12.8	2.2	14.1	2.1
	Plywood:					
243601	Softwood	Million sq. ft. (3/8" basis).	**19.1	3.4	6.9	1.0
243515	Hardwood, container type	Million sq. ft. (surf. meas.).	(D)	(D)	3.1	.8
	Veneer:					
243540	Hardwood	Million sq. ft. (surf. meas.).	29.1	8.5	90.7	9.2
243640	Softwood	Million sq. ft. (1" basis).	(S)	6.8	[2]11.8	3.2
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	Million lb.	(D)	(D)	(X)	20.4
970099	All other materials and components, parts, containers, and supplies	.....	(X)	30.0		
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	14.3	(X)	[4]49.6
	INDUSTRY 2491, WOOD PRESERVING					
	Materials, parts, and supplies	.....	(X)	589.8	(X)	278.0
	Treated in same establishment:					
241109	Poles, piling, and other round or hewn wood products	.....	(X)	122.1	(X)	82.1
	Rough lumber, including sawn ties:					
242110	Hardwood	Million bd. ft.	606.9	99.2	*486.7	50.2
242121	Softwood	Million bd. ft.	495.3	109.0	*431.3	61.9
	Consumed in same establishment:					
286551	Creosote oil	Million gal.	*90.3	58.9	141.9	35.2
291108	Petroleum solvents	Million gal.	45.3	20.2		
286915	Pentachlorophenol	Million lb.	41.1	16.1		
281902	Water-born salts	Million lb.	14.0	11.1	(X)	26.2
280015	Flame retardants	Million lb.	*9.7	3.6		
970099	All other materials, components, parts, containers, and supplies	.....	(X)	45.4		
971000	Materials, parts, and supplies, n.s.k.[3]	.....	(X)	104.2	(X)	22.4
	INDUSTRY 2492, PARTICLEBOARD					
	Materials, containers, and supplies	.....	(X)	213.0	(X)	138.4
	Logs, bolts, and unsliced flitches:					
241111	Hardwood	Million ft. (log scale).	(D)	(D)	(NA)	([5])
241112	Softwood	Million ft. (log scale).	16.0	4.1	(NA)	([5])
242016	Chips, slabs, edgings, sawdust, and other wood wastes, except planer shavings	1,000 s. tons	1,630.6	16.2	(X)	31.5
242017	Planer shavings	1,000 s. tons	4,378.1	43.9		
282141	Urea and melamine resins	Million lb. (dry basis).	*922.4	77.1	1,031.8	52.1
282142	Phenolic and other tar acid resins	Million lb. (dry basis).	(S)	10.9	28.3	5.2
282108	All other plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	Million lb. (dry basis).	(D)	(D)	(X)	[5]49.6
970099	All other materials and components, parts, containers, and supplies	.....	(X)	48.3		
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	2.4		

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2499, WOOD PRODUCTS, N.E.C.					
	Materials, containers, and supplies	.....	(X)	1,100.1	(X)	628.6
	Logs, bolts, and unsliced flitches:					
241111	Hardwood	Million ft. (log scale).	*229.1	35.8	261.1	25.9
241112	Softwood	Million ft. (log scale).	*67.7	11.1	(S)	8.9
	Rough lumber:					
242110	Hardwood	Million bd. ft.	**123.2	43.9	e132.3	23.1
242121	Softwood		(S)	42.6	e195.9	26.5
	Dressed lumber:					
242117	Hardwood		**76.6	21.8	e130.6	15.6
242128	Softwood		**243.3	43.0	e224.6	34.0
242620	Hardwood dimension and parts, excluding furniture frames	Million bd. ft.	**27.5	15.9	(X)	(6)
242011	Chips, slabs, edgings, shavings, sawdust, and other wood wastes	.....	(X)	34.0	(X)	28.1
241131	Pulpwood	1,000 cords of 128 cu. ft.	725.1	31.9	(X)	(6)
249960	Hardboard (wood fiberboard)	Mil. sq. ft. (1/8" basis).	*746.6	61.6	(X)	51.2
249200	Particleboard	Mil. sq. ft. (1/2" basis).	**366.4	38.2	(X)	(6)
285100	Paints and allied products (stains, lacquers, varnishes, etc.)	1,000 gal.	7,475.5	40.2	(X)	(6)
289100	Adhesives and sealants	Million lb.	*16.7	3.9	(X)	(6)
282141	Urea and melamine resins	Million lb. (dry basis).	*103.3	12.4	(S)	2.3
282142	Phenolic and other tar acid resins	Million lb. (dry basis).	178.3	25.6	40.0	8.0
282108	All other plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	Million lb.	(S)	12.7	(X)	(6)
970099	All other materials and components, containers, and supplies	.....	(X)	356.2	(X)	6229.5
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	269.3	(X)	175.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. eEstimated. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]For some establishments data have been estimated from central unit values, which are based on the quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]For 1972, the unit of measure for softwood veneer was 3/8" basis.

[3]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[4]For 1972, materials consumed detail was not collected for establishments primarily engaged in manufacturing slack and tight cooperage. Total cost of materials for these establishments was included in material code 971000.

[5]For 1972, material codes 241111 and 241112 were included in material code 970099.

[6]For 1972, material codes 242620, 241131, 249200, 285100, 289100, and 289108 were included with material code 970099.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity[1]	1972 Delivered cost (million dollars)
	INDUSTRY 2449, WOOD CONTAINERS, N.E.C.					
	Materials, containers, and supplies	.....	(X)	122.9	(X)	[4]114.9
	Logs, bolts, and unsliced flitches:					
241111	Hardwood	Million ft. (log scale).	110.1	16.5	**84.1	6.5
241112	Softwood	Million ft. (log scale).	37.6	4.2	**52.2	4.6
	Rough lumber:					
242110	Hardwood	Million bd. ft.	191.6	26.7	**127.0	11.0
242121	Softwood	↑	31.6	3.8	**23.1	2.7
	Dressed lumber:					
242117	Hardwood	↓	20.1	2.9	32.3	3.7
242128	Softwood	Million bd. ft.	**12.8	2.2	14.1	2.1
	Plywood:					
243601	Softwood	Million sq. ft. (3/8" basis).	**19.1	3.4	6.9	1.0
243515	Hardwood, container type	Million sq. ft. (surf. meas.).	(D)	(D)	3.1	.8
	Veneer:					
243540	Hardwood	Million sq. ft. (surf. meas.).	29.1	8.5	90.7	9.2
243640	Softwood	Million sq. ft. (1" basis).	(S)	6.8	[2]11.8	3.2
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	Million lb.....	(D)	(D)	(X)	20.4
970099	All other materials and components, parts, containers, and supplies	.....	(X)	30.0		
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	14.3	(X)	[4]49.6
	INDUSTRY 2491, WOOD PRESERVING					
	Materials, parts, and supplies	.....	(X)	589.8	(X)	278.0
	Treated in same establishment:					
241109	Poles, piling, and other round or hewn wood products	.....	(X)	122.1	(X)	82.1
	Rough lumber, including sawn ties:					
242110	Hardwood	Million bd. ft.	606.9	99.2	*486.7	50.2
242121	Softwood	Million bd. ft.	495.3	109.0	*431.3	61.9
	Consumed in same establishment:					
286551	Creosote oil	Million gal....	*90.3	58.9	141.9	35.2
291108	Petroleum solvents	Million gal....	45.3	20.2		
286915	Pentachlorophenol	Million lb.....	41.1	16.1		
281902	Water-born salts	Million lb.....	14.0	11.1	(X)	26.2
280015	Flame retardants	Million lb.....	*9.7	3.6		
970099	All other materials, components, parts, containers, and supplies	.....	(X)	45.4		
971000	Materials, parts, and supplies, n.s.k.[3]	.....	(X)	104.2	(X)	22.4
	INDUSTRY 2492, PARTICLEBOARD					
	Materials, containers, and supplies	.....	(X)	213.0	(X)	138.4
	Logs, bolts, and unsliced flitches:					
241111	Hardwood	Million ft. (log scale).	(D)	(D)	(NA)	([5])
241112	Softwood	Million ft. (log scale).	16.0	4.1	(NA)	([5])
242016	Chips, slabs, edgings, sawdust, and other wood wastes, except planer shavings	1,000 s. tons..	1,630.6	16.2	(X)	31.5
242017	Planer shavings	1,000 s. tons..	4,378.1	43.9		
282141	Urea and melamine resins	Million lb. (dry basis).	*922.4	77.1	1,031.8	52.1
282142	Phenolic and other tar acid resins	Million lb. (dry basis).	(S)	10.9	28.3	5.2
282108	All other plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	Million lb. (dry basis).	(D)	(D)	(X)	[5]49.6
970099	All other materials and components, parts, containers, and supplies	.....	(X)	48.3		
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	2.4		

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2499, WOOD PRODUCTS, N.E.C.					
	Materials, containers, and supplies	.....	(X)	1,100.1	(X)	628.6
	Logs, bolts, and unsliced flitches:					
241111	Hardwood	Million ft. (log scale).	*229.1	35.8	261.1	25.9
241112	Softwood	Million ft. (log scale).	*67.7	11.1	(S)	8.9
	Rough lumber:					
242110	Hardwood	Million bd. ft.	**123.2	43.9	e132.3	23.1
242121	Softwood		(S)	42.6	e195.9	26.5
	Dressed lumber:					
242117	Hardwood		**76.6	21.8	e130.6	15.6
242128	Softwood		**243.3	43.0	e224.6	34.0
242620	Hardwood dimension and parts, excluding furniture frames	Million bd. ft.	**27.5	15.9	(X)	(6)
242011	Chips, slabs, edgings, shavings, sawdust, and other wood wastes	.....	(X)	34.0	(X)	28.1
241131	Pulpwood	1,000 cords of 128 cu. ft.	725.1	31.9	(X)	(6)
249960	Hardboard (wood fiberboard)	Mil. sq. ft. (1/8" basis).	*746.6	61.6	(X)	51.2
249200	Particleboard	Mil. sq. ft. (1/2" basis).	**366.4	38.2	(X)	(6)
285100	Paints and allied products (stains, lacquers, varnishes, etc.)	1,000 gal.	7,475.5	40.2	(X)	(6)
289100	Adhesives and sealants	Million lb.	*16.7	3.9	(X)	(6)
282141	Urea and melamine resins	Million lb. (dry basis).	*103.3	12.4	(S)	2.3
282142	Phenolic and other tar acid resins	Million lb. (dry basis).	178.3	25.6	40.0	8.0
282108	All other plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	Million lb.	(S)	12.7	(X)	(6)
970099	All other materials and components, containers, and supplies	.....	(X)	356.2	(X)	[6]229.5
971000	Materials, containers, and supplies, n.s.k.[3]	.....	(X)	269.3	(X)	175.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. e Estimated. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1] For some establishments data have been estimated from central unit values, which are based on the quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2] For 1972, the unit of measure for softwood veneer was 3/8" basis.

[3] Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[4] For 1972, materials consumed detail was not collected for establishments primarily engaged in manufacturing slack and tight cooperage. Total cost of materials for these establishments was included in material code 971000.

[5] For 1972, material codes 241111 and 241112 were included in material code 970099.

[6] For 1972, material codes 242620, 241131, 249200, 285100, 289100, and 289108 were included with material code 970099.

Wood Buildings and Mobile Homes

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DESCRIPTION OF INDUSTRIES

WOOD BUILDINGS AND MOBILE HOMES

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

2451 Mobile Homes
2452 Prefabricated Wood Buildings

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2451, MOBILE HOMES

This industry comprises establishments primarily engaged in the manufacture of mobile homes. These mobile homes are generally over 35 feet long, at least 8 feet wide, do not have facilities for storage of water or waste, and are equipped with wheels. These products may also have nonresidential uses, such as classrooms or offices. Trailers that are generally 35 feet long or less, 8 feet wide or less, and with selfcontained facilities are classified in industry 3792. Portable buildings not equipped with wheels are classified in industry 2452.

The total value of shipments for establishments classified in the Mobile Homes industry amounted to $3,199 million in 1977, a decrease of 1 percent from 1972. The value of shipments of products classified as primary to the industry was $3,175 million, a decrease of less than 1 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $1,031 million in 1977, was less than 1 percent below value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 50.5 thousand employees, a decrease of 30 percent from 1972. The leading States in employment were California, Texas, Indiana, and Florida, accounting for approximately 40 percent of the industry's 1977 employment. This represents a shift from 1972 when California, Georgia, Indiana, and Texas accounted for approximately 40 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agenices or developed from industry averages. These establishments accounted for 7 percent of total value of shipments.

INDUSTRY 2452, PREFABRICATED WOOD BUILDINGS

This industry comprises establishments primarily engaged in the manufacture of prefabricated wood buildings, sections, and panels. Establishments primarily engaged in the fabrication of buildings on the site of construction are classified in Division C, Construction; and those in the manufacture of fabricated structural wood products in industry 2439.

The total value of shipments for establishments classified in the Prefabricated Wood Buildings industry amounted to $1,949 million in 1977, an increase of 86 percent from 1972. The value of shipments of products classified as primary to the industry was $1,864 million, an increase of 88 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $759 million in 1977, was 66 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 29.0 thousand employees, an increase of 15 percent from 1972. The leading States in employment were Wisconsin, Virginia, Pennsylvania, and Indiana, accounting for approximately 30 percent of the industry's 1977 employment. This represents a shift from 1972 when

Pennsylvania, Indiana, New York, and Virginia accounted for approximately 30 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agenices or developed from industry averages. These establishments accounted for 9 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2451, MOBILE HOMES[3]																
1977 Census--	306	597	465	50.5	527.6	41.8	80.5	371.8	1 030.5	2 175.3	3 199.3	69.8	(NA)	193.3	99	99
1976 ASM----	(NA)	(NA)	(NA)	45.6	437.8	37.4	73.6	305.9	858.3	1 741.6	2 593.8	24.7	279.9	174.9	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	42.5	374.2	33.5	63.3	250.1	699.8	1 412.7	2 138.4	22.5	318.2	157.9	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	56.7	457.5	45.4	84.8	318.8	773.5	1 780.9	2 560.3	32.0	323.6	208.6	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	75.6	592.2	63.0	117.4	429.8	1 059.9	2 311.8	3 360.3	46.5	312.0	259.9	(NA)	(NA)
1972 Census--	350	683	589	71.9	547.3	60.5	115.1	407.7	1 033.9	2 220.3	3 242.9	63.4	273.5	222.6	99	99
INDUSTRY 2452, PREFABRICATED WOOD BUILDINGS[3]																
1977 Census--	510	568	287	29.0	330.6	21.2	40.6	204.4	758.6	1 207.1	1 948.6	40.2	(NA)	229.1	98	98
1976 ASM----	(NA)	(NA)	(NA)	16.8	187.4	12.1	22.9	112.1	432.8	662.6	1 099.4	15.6	165.7	121.6	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	15.8	165.7	10.9	20.4	97.9	350.3	546.8	904.3	13.5	161.9	111.4	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	19.8	193.2	13.0	24.9	111.9	402.3	650.4	1 061.4	24.5	176.8	129.5	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	25.6	214.5	18.8	34.9	132.3	484.2	742.7	1 232.6	30.3	206.4	157.0	(NA)	(NA)
1972 Census--	262	310	245	25.2	198.1	18.9	34.8	124.1	457.1	609.2	1 046.1	29.6	179.8	143.7	97	96

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2451, MOBILE HOMES										
1977 Census--	10 448	(NA)	82	1 924	4.61	67	84	(NA)	20 407	51	12.80
1976 ASM----	9 600	6 138	82	1 967	4.15	67	84	10	18 822	51	11.66
1975 ASM----	8 804	7 487	78	1 889	3.95	66	83	14	16 465	53	11.05
1974 ASM----	8 068	5 707	80	1 867	3.75	69	87	12	13 641	59	9.12
1973 ASM----	7 833	4 126	83	1 863	3.66	68	86	9	14 019	55	9.02
1972 Census--	7 611	3 803	84	1 902	3.54	68	85	8	14 379	52	8.98
	INDUSTRY 2452, PREFABRICATED WOOD BUILDINGS										
1977 Census--	11 408	(NA)	73	1 918	5.03	61	78	(NA)	26 179	43	18.68
1976 ASM----	11 154	9 863	72	1 892	4.89	60	77	15	25 761	43	18.89
1975 ASM----	10 487	10 246	68	1 871	4.79	60	78	17	22 170	47	17.17
1974 ASM----	9 757	8 929	65	1 915	4.49	61	79	16	20 318	48	16.15
1973 ASM----	8 378	8 062	73	1 856	3.79	60	77	16	18 914	44	13.87
1972 Census--	7 861	7 134	75	1 841	3.56	58	77	17	18 138	43	13.13

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2451, MOBILE HOMES														
United States	-	**597**	**465**	**50.5**	**527.6**	**41.8**	**80.5**	**371.8**	**1 030.5**	**2 175.3**	**3 199.3**	**69.8**	**71.9**	**1 033.9**
Middle Atlantic Division:														
New York	-	5	4	0.3	3.3	0.2	0.4	2.1	5.0	13.5	18.8	0.1	0.3	2.8
Pennsylvania	-	26	23	2.1	22.4	1.6	2.9	15.1	42.9	97.6	140.7	2.2	4.2	68.8
East North Central Division:														
Ohio	-	9	8	0.8	8.6	0.7	1.2	6.2	17.5	40.4	57.6	0.7	1.6	23.4
Indiana	-	51	42	3.6	48.2	2.7	5.1	33.3	87.3	217.4	304.0	(D)	6.1	114.4
Michigan	-	9	6	0.4	4.7	0.3	0.6	3.3	7.0	17.0	23.6	0.6	2.5	40.3
Wisconsin	-	11	9	1.3	16.1	1.1	2.2	12.0	35.4	57.0	92.4	0.7	1.5	28.7
West North Central Division:														
Minnesota	-	14	9	0.8	8.3	0.7	1.2	5.5	16.0	36.6	52.7	0.2	1.0	16.5
Missouri	E1	8	4	0.4	3.6	0.3	0.6	2.5	6.2	13.8	20.0	0.4	0.9	12.4
South Dakota	-	5	4	0.3	3.1	0.3	0.6	2.2	5.8	12.9	18.7	(D)	(NA)	(D)
Nebraska	E4	10	9	0.8	7.8	0.6	1.3	5.0	15.3	31.2	46.4	0.3	(NA)	(D)
Kansas	-	15	15	1.6	17.4	1.3	2.5	12.6	31.3	73.3	104.5	1.3	3.0	41.6
South Atlantic Division:														
Maryland	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Virginia	-	8	6	0.7	5.9	0.6	1.1	4.2	9.6	25.5	35.0	0.3	1.0	10.4
North Carolina	-	31	26	2.6	25.0	2.2	4.1	17.4	44.5	104.3	149.0	5.3	3.1	38.0
South Carolina	-	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Georgia	-	43	30	2.8	26.4	2.2	4.3	18.4	48.7	120.5	169.9	(D)	6.4	93.0
Florida	E1	43	33	2.9	32.6	2.4	4.7	22.0	58.1	123.6	181.2	2.7	4.4	70.4
East South Central Division:														
Kentucky	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Tennessee	E1	14	11	1.4	11.0	1.1	2.0	7.7	21.1	46.5	67.6	(D)	(NA)	(D)
Alabama	-	24	19	2.7	24.5	2.2	4.3	17.1	45.5	116.0	161.5	3.6	6.4	86.6
Mississippi	-	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
West South Central Division:														
Arkansas	E1	10	6	0.7	5.7	0.6	1.1	3.8	11.8	23.4	34.8	0.3	1.5	12.7
Louisiana	-	8	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Oklahoma	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Texas	-	57	44	5.9	54.0	4.9	9.6	39.0	105.9	233.9	338.2	6.2	6.0	71.6
Mountain Division:														
Montana	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Idaho	-	17	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Colorado	-	8	7	0.8	8.7	0.6	1.2	5.8	15.5	31.1	46.5	(D)	(NA)	(D)
Arizona	-	12	10	1.0	9.9	0.8	1.6	7.0	19.9	40.3	59.6	(D)	(NA)	(D)
Pacific Division:														
Washington	-	8	7	0.8	9.9	0.7	1.4	7.3	20.3	37.0	57.2	0.6	0.8	9.9
Oregon	E1	18	17	2.7	31.0	2.2	4.4	22.3	66.2	121.5	186.5	5.5	(NA)	(D)
California	E1	80	61	7.9	85.9	6.8	13.3	63.3	186.5	329.7	513.0	19.0	7.7	112.5
INDUSTRY 2452, PREFABRICATED WOOD BUILDINGS														
United States	-	**568**	**287**	**29.0**	**330.6**	**21.2**	**40.6**	**204.4**	**758.6**	**1 207.1**	**1 948.6**	**40.2**	**25.2**	**457.1**
New England Division:														
Maine	E1	7	6	0.3	2.8	0.2	0.4	1.5	7.3	9.0	17.0	(D)	(NA)	(D)
New Hampshire	E1	10	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Massachusetts	-	10	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Middle Atlantic Division:														
New York	E1	23	9	0.7	8.5	0.5	0.8	4.3	15.9	34.8	50.3	(D)	1.8	41.0
Pennsylvania	-	37	21	2.1	23.2	1.6	3.0	15.6	52.4	98.0	149.6	1.8	2.3	62.8
East North Central Division:														
Ohio	-	32	17	1.1	14.7	0.9	1.6	8.8	32.2	72.1	104.1	0.9	1.6	30.4
Indiana	-	30	16	1.6	20.9	1.1	2.1	11.4	40.1	65.8	105.6	1.5	2.0	35.4
Illinois	-	23	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	18.6
Michigan	-	23	14	1.0	12.0	0.7	1.3	7.8	25.4	35.8	60.0	2.1	0.9	12.0
Wisconsin	-	22	16	3.1	41.5	2.4	5.5	31.3	102.0	117.7	217.7	5.4	1.3	24.6
West North Central Division:														
Minnesota	-	15	8	0.8	10.1	0.4	0.7	3.6	31.4	48.7	79.9	1.3	0.3	8.2
Iowa	-	21	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Missouri	-	9	5	0.5	6.8	0.4	0.9	4.8	14.8	19.2	34.0	(D)	0.6	10.8
South Dakota	E1	6	4	0.3	3.5	0.2	0.4	1.7	7.1	10.3	17.4	(D)	(NA)	(D)
Nebraska	-	6	3	0.2	2.1	0.1	0.2	1.0	6.8	7.0	13.9	0.1	(NA)	(NA)
Kansas	-	10	4	0.3	2.9	0.2	0.4	2.1	8.1	15.6	23.6	0.5	(NA)	(NA)
South Atlantic Division:														
Delaware	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Maryland	E4	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Virginia	-	18	14	2.4	21.5	1.8	2.9	11.4	45.2	93.0	138.0	2.3	1.7	28.4
North Carolina	E3	16	4	0.4	4.2	0.3	0.6	2.5	8.5	14.1	22.3	0.7	0.6	5.7
Georgia	-	13	5	0.6	5.7	0.4	0.6	2.5	9.8	18.9	28.6	(D)	1.1	15.1
Florida	E2	12	7	0.6	6.3	0.4	0.7	3.7	15.4	20.1	35.5	0.6	0.4	6.4
East South Central Division:														
Tennessee	E1	12	4	0.2	1.8	0.2	0.3	1.1	4.4	6.2	10.5	(D)	(NA)	(D)
Alabama	-	15	8	0.8	8.1	0.6	1.2	4.9	15.2	28.8	43.7	0.2	1.1	18.9
West South Central Division:														
Oklahoma	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Texas	-	23	11	1.4	17.1	1.0	1.9	9.1	45.8	64.0	103.1	1.1	0.6	8.3

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977												1972	
		All establishments		All employees		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2452, PREFABRICATED WOOD BUILDINGS—Con.														
Mountain Division:														
Montana	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Idaho	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Colorado	-	4	3	0.4	5.1	0.3	0.5	2.4	15.4	19.4	34.8	(D)	(NA)	(D)
New Mexico	E2	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arizona	E6	9	3	0.3	3.1	0.2	0.4	1.8	7.0	15.5	22.0	(D)	(NA)	(NA)
Utah	-	12	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pacific Division:														
Washington	E3	18	10	0.7	10.3	0.4	0.8	4.9	22.5	32.9	55.4	1.6	(NA)	(D)
California	E2	41	14	1.3	14.9	1.0	2.0	11.0	32.7	67.7	100.3	1.1	0.6	7.9

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Mobile homes (SIC 2451)	Prefabricated wood buildings (SIC 2452)
Primary product specialization ratio[1]	percent	99	98
Coverage ratio[2]	do	99	98
All establishments	number	597	568
With 1 to 19 employees	do	132	281
With 20 to 99 employees	do	254	203
With 100 employees or more	do	211	84
All employees, average for year	1,000	50.5	29.0
Payroll for year, all employees	mil. dol.	527.6	330.6
Production workers:			
Average for year	1,000	41.8	21.2
March	do	37.2	17.6
May	do	41.5	21.2
August	do	44.9	23.6
November	do	43.6	22.3
Hours	millions	80.5	40.6
January to March	do	16.5	7.6
April to June	do	20.9	10.5
July to September	do	22.3	11.7
October to December	do	20.8	10.9
Wages	mil. dol.	371.8	204.4
Cost of materials, etc.	do	2 175.3	1 207.1
Materials, parts, containers, etc., consumed	do	2 142.4	1 109.6
Resales	do	16.6	48.9
Fuels consumed	do	4.2	4.9
Purchased electric energy	do	8.1	4.3
Contract work	do	3.9	39.4
Value of shipments, including resales	do	3 199.3	1 948.6
Value of resales	do	22.0	70.4
Value added by manufacture	do	1 030.5	758.6
Manufacturers' inventories:			
Beginning of year	do	165.5	184.5
Finished products	do	37.9	24.8
Work in process	do	17.8	24.2
Materials, supplies, fuel, etc.	do	109.8	135.5
End of year	do	193.3	229.1
Finished products	do	41.6	32.1
Work in process	do	20.6	34.0
Materials, supplies, fuel, etc.	do	131.2	163.0
Capital expenditures for plant and equipment	do	72.6	42.1
New capital expenditures	do	69.8	40.2
New buildings and other structures	do	27.1	15.9
New machinery and equipment	do	42.7	24.3
Used capital expenditures	do	2.9	2.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Mobile homes (SIC 2451)		Prefabricated wood buildings (SIC 2452)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:				
Cost of purchased services for repair of--				
Buildings and other structures	(2.8)	16	(1.5)	27
Response coverage ratio[2] (percent)	58.9	(X)	60.5	(X)
Machinery	(5.9)	44	8.7	9
Response coverage ratio[2] (percent)	64.4	(X)	61.4	(X)
Cost of purchased communication services	(12.5)	22	5.1	11
Response coverage ratio[2] (percent)	60.6	(X)	60.2	(X)
Rental payments	13.3	10	14.4	7
Buildings and other structures	8.8	10	4.8	13
Machinery and equipment	4.5	14	9.6	7
Supplemental labor costs	80.9	1	51.5	3
Legal costs	53.9	1	27.4	3
Voluntary costs	27.1	3	24.1	3
Gross value of depreciable assets:				
Buildings and other structures:				
Beginning or year	161.4	6	102.5	8
New capital expenditures	(32.1)	16	15.3	7
Used capital expenditures	2.0	3	(0.2)	25
Retirements	6.0	14	4.4	13
End of year	189.6	5	113.7	7
Machinery and equipment:				
Beginning of year	102.0	4	108.6	4
New capital expenditures	(41.5)	15	(32.2)	17
Automobiles, trucks, etc., for highway use[3]	(5.2)	(A)	(9.7)	(A)
Computers and peripheral data processing equipment[3]	(0.6)	(A)	(0.6)	(A)
All other[3]	(23.8)	84	(12.1)	(A)
New machinery and equipment, n.s.k.[4]	(12.0)	(A)	(9.8)	(A)
Used capital expenditures	1.0	14	(1.2)	18
Retirements	9.2	3	5.7	6
End of year	135.4	5	136.4	6
Total gross value of depreciable assets:				
Beginning of year	263.4	5	211.2	4
New capital expenditures	73.7	11	47.5	11
Used capital expenditures	3.0	6	(1.4)	16
Retirements	15.1	7	10.1	7
End of year	325.0	5	250.1	3
Depreciation charges during 1977	24.2	6	18.6	4
Buildings and other structures	9.8	6	5.4	8
Machinery and equipment	14.5	8	13.2	7

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2451, MOBILE HOMES												
Total	-	597	50.5	527.6	41.8	80.5	371.8	1 030.5	2 175.3	3 199.3	69.8	193.3
Establishments with an average of—												
1 to 4 employees	E6	81	0.1	1.0	0.1	0.2	0.6	0.2	3.6	5.4	2.1	0.4
5 to 9 employees	E5	19	0.1	1.4	0.1	0.2	0.9	2.6	5.5	8.5	0.5	0.6
10 to 19 employees	E7	32	0.5	4.4	0.4	0.8	3.1	8.0	16.3	24.3	2.7	2.0
20 to 49 employees	E1	79	2.8	27.3	2.3	4.2	17.8	43.0	98.9	141.9	9.9	12.2
50 to 99 employees	-	175	13.4	141.0	10.9	20.3	95.3	272.8	618.3	890.1	12.9	56.2
100 to 249 employees	-	192	26.6	280.6	22.3	43.3	199.6	557.3	1 130.9	1 683.4	23.1	99.9
250 to 499 employees	E1	17	(6.9)	(71.9)	(5.8)	(11.5)	(54.5)	(146.6)	(301.7)	(445.6)	(18.6)	(22.1)
500 to 999 employees	E4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	61	0.6	6.1	0.5	1.0	4.3	11.5	23.7	35.2	3.2	2.3
INDUSTRY 2452, PREFABRICATED WOOD BUILDINGS												
Total	-	568	29.0	330.6	21.2	40.8	204.4	758.6	1 207.1	1 948.6	40.2	229.1
Establishments with an average of—												
1 to 4 employees	E7	140	0.2	2.3	0.2	0.3	1.4	3.6	10.1	13.9	0.2	1.5
5 to 9 employees	E4	61	0.4	4.5	0.3	0.6	2.7	12.4	17.3	29.3	0.6	3.7
10 to 19 employees	E4	80	1.1	12.2	0.8	1.5	7.4	25.0	44.2	69.0	1.4	7.9
20 to 49 employees	E1	121	3.9	42.2	2.8	5.2	25.5	99.3	178.8	277.6	4.7	34.0
50 to 99 employees	-	82	5.8	66.2	4.4	8.3	41.2	156.5	263.8	418.7	7.3	56.2
100 to 249 employees	-	65	10.3	117.2	7.5	14.4	71.6	256.3	397.7	647.3	15.4	76.5
250 to 499 employees	-	16	4.9	51.5	3.5	6.6	30.8	124.0	199.8	317.1	(10.6)	33.8
500 to 999 employees	-	2	(2.4)	(34.3)	(1.7)	(3.8)	(23.7)	(81.7)	(95.4)	(175.7)	(D)	(15.6)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	184	1.4	15.0	1.0	1.8	8.9	31.7	49.6	81.4	1.0	9.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2451	**Mobile homes:**										
	Entire industry	597	50.5	527.6	41.8	80.5	371.8	1 030.5	2 175.3	3 199.3	69.8
	Establishments with 75 percent specialization or more	554	49.8	520.9	41.2	79.4	367.7	1 020.9	2 153.2	3 166.1	66.1
24511	Mobile homes (35 feet or more in length):										
	Establishments with this product class primary	411	45.3	478.4	37.6	72.6	337.8	939.2	1 991.2	2 924.9	46.7
	Establishments with 75 percent specialization or more in class	404	44.8	473.4	37.2	71.7	334.4	930.4	1 972.3	2 897.1	(D)
24512	Mobile buildings (35 feet or more in length):										
	Establishments with this product class primary	27	1.6	16.1	1.3	2.2	10.5	30.1	51.8	80.2	1.3
	Establishments with 75 percent specialization or more in class	23	1.3	13.4	1.0	1.9	8.9	25.3	45.7	69.7	1.2
2452	**Prefabricated wood buildings:**										
	Entire industry	568	29.0	330.6	21.2	40.6	204.4	758.6	1 207.1	1 948.6	40.2
	Establishments with 75 percent specialization or more	537	28.0	320.6	20.5	39.2	197.5	739.0	1 174.2	1 897.0	39.4
24521	Components for wood buildings (not complete units):										
	Establishments with this product class primary	61	3.3	38.1	2.4	4.4	22.8	86.5	150.2	235.7	5.1
	Establishments with 75 percent specialization or more in class	48	2.5	29.3	1.8	3.4	17.8	66.6	118.5	184.7	3.3
24522	Precut packages for wood buildings (complete units):										
	Establishments with this product class primary	67	4.7	57.4	2.9	5.4	29.2	160.4	257.3	409.5	7.5
	Establishments with 75 percent specialization or more in class	58	4.4	53.8	2.7	5.0	26.9	152.7	238.4	383.8	(D)
24523	Wood buildings (complete units, shipped panel form):										
	Establishments with this product class primary	79	9.5	118.2	6.8	14.4	74.5	268.9	416.9	680.5	13.5
	Establishments with 75 percent specialization or more in class	69	8.8	110.6	6.3	13.3	69.6	257.0	386.8	639.0	13.0
24524	Wood buildings (shipped in 3-dimensional assemblies):										
	Establishments with this product class primary	54	6.7	68.0	5.5	10.1	48.1	141.5	226.6	366.6	8.8
	Establishments with 75 percent specialization or more in class	52	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2451	Mobile homes.....1977..	3,199.3	3,155.7	17.6	26.1	99	3,175.4	3,155.7	19.7	99
	1972..	3,242.9	3,159.3	27.3	56.3	99	3,181.6	3,159.3	22.3	99
	1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2452	Prefabricated wood buildings.....1977..	1,948.6	1,830.6	35.6	82.4	98	1,863.8	1,830.6	33.2	98
	1972..	1,046.1	945.7	28.5	71.9	97	989.3	945.7	43.6	96
	1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(NA) Not available.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Mobile homes (SIC 2451)	Prefabricated wood buildings (SIC 2452)	Other industries
	Total	(X)	3,199.3	1,948.6	(X)
	Primary products	(X)	3,155.7	1,830.6	(X)
	Secondary products	(X)	17.6	35.6	(X)
	Miscellaneous receipts	(X)	26.1	82.4	(X)
2451-	Mobile homes	3,175.4	3,155.7	10.3	9.5
24511	Mobile homes (35 feet or more in length)	2,895.7	2,878.6	(D)	(D)
24512	Mobile buildings (35 feet or more in length)	83.3	82.6	(D)	(D)
24510	Mobile homes, n.s.k	196.4	194.6	(D)	(D)
2452-	Prefabricated wood buildings	1,863.8	8.9	1,830.6	24.3
24521	Components for wood buildings (not complete units)	232.2	-	218.3	13.8
24522	Precut packages for wood buildings (complete units)	362.9	(D)	352.5	(D)
24523	Wood buildings (complete units, shipped panel form)	652.7	-	650.0	2.7
24524	Wood buildings (shipped in 3-dimensional assemblies)	365.1	(D)	363.0	(D)
24520	Prefabricated wood buildings, n.s.k	250.9	2.7	246.7	1.4
	Other shipments by 4-digit product group:				
2431-	Millwork	(X)	-	3.9	(X)
2439-	Structural wood members, n.e.c	(X)	-	(D)	(X)
3792-	Travel trailers and campers	(X)	7.3	(D)	(X)
	Miscellaneous receipts:				
93000 00	Contract work	(X)	-	6.9	(X)
99980 13	Sales of scrap and refuse	(X)	-	(D)	(X)
99980 98	Other miscellaneous receipts, including receipts for repair work, etc	(X)	-	3.4	(X)
99980 00	Other miscellaneous receipts, n.s.k	(X)	4.0	(D)	(X)
99989 00	Resales	(X)	22.0	70.4	(X)

1977 product code	Industry and miscellaneous receipts	Other industries	1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:			Other industries with over $5 million shipments of primary products--Con.	
2451-	3792 Travel trailers and campers	(D)	2452-	2439 Structural wood members, n.e.c	16.9

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	MOBILE HOMES						
2451- --	Total	.....	(NA)	(X)	3,175.4	(X)	3,181.6
24511 --	Mobile homes (35 feet or more in length)	Thousands	(NA)	(X)	2,895.7	552.1	3,126.6
24511 10	8 feet in width		6	1.3	10.9	15.3	74.1
24511 12	8 feet, 1 inch, to 11 feet, 11 inches in width		9	3.5	23.6		
24511 13	12 feet in width		53	37.1	261.3	334.7	1,629.7
24511 15	12 feet, 1 inch, to 13 feet, 11 inches in width		20	14.2	135.6	24.0	140.8
24511 17	14 feet or more in width		23	117.8	1,179.3	97.5	624.1
24511 18	Double wides	Thousands	95	68.3	1,041.8	80.6	657.9
24511 00	Mobile homes (35 feet or more in length), n.s.k.	.....	(NA)	(X)	243.2	-	-
24512 --	Mobile buildings, nonresidential (35 feet or more in length)	Thousands	(NA)	(X)	83.3	11.1	44.5
24512 22	Office and other commercial		25	10.9	67.5	8.1	28.7
24512 24	Classrooms		3	(S)	1.6	.7	7.1
24512 27	Other, including industrial	Thousands	5	(S)	4.4	2.3	8.7
24512 00	Mobile buildings, nonresidential (35 feet or more in length), n.s.k.	.....	(NA)	(X)	9.8	-	-
24510 00	Mobile homes, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	161.2	(X)	1.7
24510 02	Mobile homes, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	35.2	(X)	8.8
	PREFABRICATED WOOD BUILDINGS						
2452- --	Total	.....	(NA)	(X)	1,863.8	(X)	989.3
24521 --	Components for stationary buildings not sold as complete units, including wall, partition, floor, ceiling panels, etc	.....	(NA)	(X)	232.2	(X)	119.7
24521 73	Residential (homes, town houses, and apartments)	.....	60	(X)	162.2	(X)	79.6
24521 75	Nonresidential, including motels and hotels	.....	16	(X)	43.1	(X)	40.1
24521 00	Components for stationary buildings not sold as complete units, n.s.k.	.....	(NA)	(X)	26.9	-	-
24522 --	Precut packages for stationary buildings sold as complete units	Thousands	(NA)	(X)	362.9	18.9	157.7
24522 21	Residential (homes, town houses, and apartments)		46	22.7	251.2	17.3	146.8
24522 23	Nonresidential, including motels and hotels	Thousands	24	*17.7	82.2	1.6	10.9
24522 00	Precut packages for stationary buildings sold as complete units, n.s.k.	.....	(NA)	(X)	29.5	-	-
24523 --	Stationary buildings sold as complete units and shipped in panel form	Thousands	(NA)	(X)	652.7	85.6	455.7
	Residential:						
24523 33	Single family, including town houses		55	42.9	512.0	56.8	374.8
24523 35	Multifamily		25	**13.0	90.7	25.8	56.8
24523 37	Nonresidential, including motels and hotels	Thousands	17	(S)	24.2	3.0	24.1
24523 00	Stationary buildings sold as complete units and shipped in panel form, n.s.k.	.....	(NA)	(X)	25.8	-	-
24524 --	Stationary buildings shipped with floors and walls, and usually ceilings and roofs in three-dimensional assemblies	Thousands	(NA)	(X)	365.1	23.4	241.2
	Residential:						
24524 43	Single family, including town houses		36	*12.5	237.8	14.9	169.5
24524 45	Multifamily		3	.3	7.7	7.1	56.1
24524 47	Nonresidential, including motels and hotels	Thousands	10	(S)	93.0	1.4	15.6
24524 00	Stationary buildings shipped with floors and walls, and usually ceilings and roofs in three-dimensional assemblies, n.s.k.	.....	(NA)	(X)	26.6	-	-
24520 00	Prefabricated wood buildings, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	169.5	(X)	15.0
24520 02	Prefabricated wood buildings, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	81.4	(X)	(NA)

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 5 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (NA) Not available. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
24511, MOBILE HOMES (35 FEET OR MORE IN LENGTH)		
United States	2,895.7	3,126.6
Middle Atlantic Division:		
New York	18.7	EE
Pennsylvania	142.5	GG
East North Central Division:		
Ohio	58.6	GG
Indiana	275.4	361.4
Michigan	20.0	102.9
Wisconsin	81.0	GG
West North Central Division:		
Minnesota	51.8	49.4
Iowa	2.0	BB
Missouri	15.8	FF
Nebraska	45.9	57.7
Kansas	98.8	128.7
South Atlantic Division:		
Virginia	34.2	CC
North Carolina	125.6	135.8
South Carolina	7.9	FF
Georgia	155.5	296.9
Florida	164.5	200.8
East South Central Division:		
Tennessee	51.8	42.5
Alabama	152.4	272.5
Mississippi	38.9	36.7
West South Central Division:		
Arkansas	32.2	39.3
Louisiana	26.7	34.0
Oklahoma	26.7	41.3
Texas	278.9	244.2
Mountain Division:		
Idaho	119.6	78.9
Colorado	40.4	35.7
Arizona	57.2	30.8
Pacific Division:		
Washington	53.2	FF
Oregon	182.4	66.5
California	462.5	321.0
24512, MOBILE BUILDINGS (35 FEET OR MORE IN LENGTH)		
United States	83.3	44.5
East North Central Division:		
Indiana	14.5	CC
Pacific Division:		
California	12.7	BB
24521, COMPONENTS FOR WOOD BUILDINGS (NOT COMPLETE UNITS)		
United States	232.2	44.5
New England Division:		
Massachusetts	14.1	12.5
Middle Atlantic Division:		
New York	9.5	CC
Pennsylvania	10.9	3.2
East North Central Division:		
Ohio	10.8	CC
Illinois	29.4	16.3
Wisconsin	26.9	CC
West North Central Division:		
Iowa	3.1	9.5
24521, COMPONENTS FOR WOOD BUILDINGS (NOT COMPLETE UNITS)--Con.		
South Atlantic Division:		
Virginia	6.7	AA
Florida	3.2	3.2
West South Central Division:		
Texas	11.0	(NA)
Pacific Division:		
California	20.5	AA
24522, PRECUT PACKAGES FOR WOOD BUILDINGS (COMPLETE UNITS)		
United States	362.9	157.7
New England Division:		
Maine	10.2	BB
Massachusetts	8.6	BB
Middle Atlantic Division:		
New York	6.3	(NA)
Pennsylvania	31.9	CC
East North Central Division:		
Ohio	36.7	18.9
Indiana	6.9	(NA)
Wisconsin	15.2	AA
South Atlantic Division:		
Virginia	42.5	CC
Pacific Division:		
Washington	23.5	FF
24523, WOOD BUILDINGS (COMPLETE UNITS, SHIPPED PANEL FORM)		
United States	652.7	455.7
New England Division:		
Massachusetts	4.9	CC
Middle Atlantic Division:		
Pennsylvania	37.6	54.3
East North Central Division:		
Ohio	33.3	22.0
Indiana	60.8	58.1
Illinois	30.8	19.4
Michigan	19.8	10.1
West North Central Division:		
Iowa	56.6	23.6
South Atlantic Division:		
Virginia	53.2	39.2
Pacific Division:		
California	15.1	CC
24524, WOOD BUILDINGS (SHIPPED IN 3-DIMENSIONAL ASSEMBLIES)		
United States	365.1	241.2
Middle Atlantic Division:		
Pennsylvania	38.0	39.2
East North Central Division:		
Indiana	20.1	6.2
Michigan	13.1	BB
Mountain Division:		
Utah	27.7	CC
Pacific Division:		
Washington	8.1	AA

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available.

Table 6c. Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2451-	Mobile homes	3,175.4	2,580.2	2,163.2	2,556.6	3,331.2	3,181.6	941.4	596.5
24511	Mobile homes (35 feet or more in length)	2,895.7	2,451.9	2,060.3	2,461.1	3,264.1	3,126.6	(NA)	(NA)
24512	Mobile buildings (35 feet or more in length)	83.3	(111.2)	(84.2)	(78.6)	48.3	44.5	(NA)	(NA)
24510	Mobile homes, n.s.k.	196.4	(17.1)	(18.3)	16.9	(18.8)	10.5	(NA)	(NA)
2452-	Prefabricated wood buildings	1,863.8	1,177.1	947.9	1,078.1	1,188.1	989.3	306.3	(NA)
24521	Components for wood buildings (not complete units)	232.2	(263.4)	(199.8)	(195.8)	(175.7)	119.7	14.0	(NA)
24522	Precut packages for wood buildings (complete units)	362.9	227.1	185.9	246.9	221.3	157.7		
24523	Wood buildings (complete units, shipped panel form)	652.7	426.5	308.0	375.3	487.7	455.7	291.2	257.4
24524	Wood buildings (shipped in 3-dimensional assemblies)	365.1	232.6	225.1	211.6	231.9	241.2		
24520	Prefabricated wood buildings, n.s.k.	250.9	(27.6)	(29.1)	(48.5)	(71.5)	15.0	1.1	(NA)

(NA) Not available. n.s.k. Not specified by kind.

[1] Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2451, MOBILE HOMES					
	Materials, parts, and supplies	.....	(X)	2,142.4	(X)	2,172.5
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes	1,000 s. tons..	(S)	3.2	112.0	13.4
331012	Sheet and strip		(S)	9.9	45.7	11.7
331015	Structural shapes		(S)	33.2	212.7	46.1
331019	All other		(S)	29.8	**47.2	18.4
	Alloy steel, except stainless:					
331021	Bars and bar shapes		**2.5	.9	17.3	8.6
331029	All other		(S)	15.0	59.4	15.1
331031	Stainless steel	1,000 s. tons..	(D)	(D)	(D)	(D)
335792	Insulated copper wire and cable, except magnet wire	Million lb.....	(S)	11.3	[2]36.0	[2]21.0
	Copper and copper-base alloy:					
335728	Bare wire for electrical conduction only		(S)	1.9	3.6	2.3
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes		(D)	(D)	.6	.3
335143	Plate, sheet, and strip, including military cups and discs		-	-	(D)	(D)
335152	Pipe and tube		**2.2	2.3	9.5	7.5
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil		(S)	21.8	259.0	104.4
335405	Extruded shapes, including rod, bar, pipe, tube, etc		(S)	1.0	25.9	9.1
335008	All other (wire, rolled rod and bar, powder, welded tubing, etc.)	Million lb.....	(S)	1.1	14.1	5.5
	Castings, rough and semifinished:					
332045	Steel	1,000 s. tons..	(S)	2.7	24.4	5.4
336100	Aluminum and aluminum-base alloy	Million lb.....	(S)	.8	**6.6	4.4
243056	Plywood	.....	(X)	141.3	(X)	166.0
242103	Dressed lumber	Mil. bd. ft....	(S)	209.6	1,217.8	238.8
229501	Coated, impregnated, and laminated fabrics	Mil. lin. yd...	(S)	24.2	23.0	28.9
249200	Particleboard (wood)	1,000 sq. ft... (3/4 basis).	(S)	56.4		
301101	Pneumatic tires and innertubes	.....	(X)	35.5		
343201	Metal plumbing fixtures, fittings, and trim, including enameled	.....	(X)	52.5		
344201	Metal doors and door units, windows and window units	.....	(X)	86.6		
345001	Bolts, nuts, screws, rivets, and screw machine products	.....	(X)	26.1		
343301	Heating equipment, except electric	.....	(X)	41.6		
363001	Electric heating equipment, refrigerators, cooking equipment, and other household appliances, except air conditioners	.....	(X)	118.7	(X)	1,305.4
364300	Current-carrying wiring devices, including lighting fixtures, switches, connectors, lampholders, etc	.....	(X)	52.3		
329601	Mineral wool insulation (fibrous glass, rock wool, etc.)	.....	(X)	76.8		
371411	Trailer axles, wheels, brakes, undercarriages, and other metal vehicular parts	.....	(X)	116.8		
344451	Metal siding, including mobile home and recreational vehicle, commercial, industrial, and farm building	1,000 s. tons..	(S)	104.7		
970099	All other materials and components, parts, containers, and supplies (see note)	.....	(X)	451.9		
971000	Materials, parts, and supplies, n.s.k.[3]	.....	(X)	412.3	(X)	158.4
	INDUSTRY 2452, PREFABRICATED WOOD BUILDINGS					
	Materials, parts, and supplies	.....	(X)	1,109.6	(X)	536.6
	Rough lumber:					
242110	Hardwood	Million bd. ft.	**55.8	9.7	(S)	5.1
242121	Softwood	Million bd. ft.	**85.9	21.2	114.4	21.2
	Dressed lumber:					
242117	Hardwood	Million bd. ft.	*150.5	29.7	54.3	11.0
242128	Softwood	Million bd. ft.	*653.4	191.2	768.9	133.9
	Plywood:					
243510	Hardwood	Million sq. ft. (surf. meas.).	(S)	18.1	27.3	5.1
243601	Softwood	Million sq. ft. (3/8" basis).	*325.2	82.4	400.2	59.7
249200	Particleboard (wood)	Million sq. ft. (3/4" basis).	**45.6	8.0	44.5	4.2
249960	Hardboard (wood fiberboard)	Million sq. ft. (1/8" basis).	100.1	16.2	70.4	5.3
327511	Gypsum building board	1,000 s. tons..	(S)	16.0	283.6	13.9
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. but excluding sheets, rods, tubes, and shapes	Million lb.....	(S)	1.3	(S)	.3
342940	Builders' hardware, including door locks, lock sets, lock trim; miscellaneous sash, screen, and shelf hardware; hinges and butts; hangers, tracks, and related items; cabinet hardware and all other builders' hardware	.....	(X)	14.5	(X)	11.2
329601	Mineral wool insulation (fibrous glass, rock wool, etc.)	.....	(X)	22.0	(X)	[4]
285101	Paint, varnishes, lacquers, japans, enamels	1,000 gal.....	*1,136.7	5.5	879.8	3.0
	Windows and window units:					
243101	Wood	Thousands.....	*638.2	37.4	597.6	18.2
344221	Metal	Thousands.....	*293.6	14.1	431.4	9.7

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2452, PREFABRICATED WOOD BUIDINGS--Con.					
	Doors and door units:					
243103	Wood	Thousands	**938.7	29.3	1,227.7	22.8
344211	Metal	Thousands	123.1	13.0	99.9	4.3
295231	Asphalt roofing	1,000 sales sq.	*1,302.3	23.0	1,567.7	13.9
344451	Aluminum siding	1,000 s. tons	(S)	6.2	4.1	4.0
	Fabricated structural metal for buildings:					
344112	Iron and steel		46.8	29.9	25.2	8.6
344117	Aluminum		(S)	.2	(S)	(Z)
	Fabricated pipe and fittings:					
349801	Iron and steel	1,000 s. tons	9.7	.7	(S)	.9
349803	Copper and copper-base alloy	Million lb	(S)	4.0	6.7	3.9
307965	Plastics	Million lb	(S)	4.2	(S)	1.2
970099	All other materials and components, parts, containers, and supplies		(X)	232.0	(X)	114.0
971000	Materials parts, and supplies, n.s.k.[3]		(X)	279.8	(X)	61.2

Note: Supplemental data for code 970099, industry 2451, are presented in the 1977 Census of Manufactures subject series report "Selected Materials Consumed."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or less than half the unit of measure specified.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]1972 data may not be directly comparable with 1977 data because of revision to code description. In 1972, material code was 335790, insulated wire and cable.

[3]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[4]For 1972, material code 329601 was included with material code 970099.

Household Furniture

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DESCRIPTION OF INDUSTRIES

HOUSEHOLD FURNITURE

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

2511 Wood Household Furniture
2512 Upholstered Household Furniture
2514 Metal Household Furniture
2515 Mattresses and Bedsprings
2517 Wood TV and Radio Cabinets
2519 Household Furniture, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2511, WOOD HOUSEHOLD FURNITURE

This industry comprises establishments primarily engaged in the manufacture of wood household furniture commonly used in dwellings. This industry also includes establishments primarily engaged in the manufacture of wood outdoor furniture and, infants' and children's wood furniture. Establishments primarily engaged in the manufacture of kitchen cabinets are classified in Industry 2434, Wood Kitchen Cabinets; and upholstered furniture in Industry 2512, Upholstered Household Furniture.

The total value of shipments for establishments classified in the Wood Household Furniture industry amounted to $4,140 million in 1977, an increase of 44 percent from 1972. The value of shipments of products classified as primary to the industry was $3,891 million, an increase of 43 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were wood dining room furniture, for which shipments increased 59 percent, and wood living room furniture, for which shipments increased 40 percent. Value added by manufacture, at $2,235 million in 1977, was 44 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 140.8 thousand employees, an increase of 5 percent from 1972. The leading States in employment were North Carolina, Virginia, California, and Tennessee, accounting for approximately 55 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 50 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 9 percent of total value of shipments.

INDUSTRY 2512, UPHOLSTERED HOUSEHOLD FURNITURE

This industry comprises establishments primarily engaged in the manufacture of upholstered furniture on wood frames. Establishments primarily engaged in reupholstering furniture, or upholstering frames to individual order, are classified in nonmanufacturing industries. Establishments primarily engaged in the manufacture of wood frames for upholstered furniture are classified in Industry 2426, Hardwood Dimension and Flooring. Establishments primarily engaged in the manufacture of dual-purpose sleep furniture, such as studio couches, sofa beds, and chair beds are classified in Industry 2515, Mattresses and Bedsprings, regardless of the material used in the frame.

The total value of shipments for establishments classified in the Upholstered Household Furniture industry amounted to $2,931 million in 1977, an increase of 39 percent from 1972. The value of shipments of products classified as primary to the industry was $2,736 million, an increase of 37 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $1,437 million in 1977, was 30 percent

above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 89.1 thousand employees, a decrease of 3 percent from 1972. The leading States in employment were North Carolina, California, Mississippi, and Tennessee, accounting for approximately 60 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 55 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 8 percent of total value of shipments.

INDUSTRY 2514, METAL HOUSEHOLD FURNITURE

This industry comprises establishments primarily engaged in the manufacture of metal household furniture, whether padded or plain, of a type commonly used in dwellings. Establishments primarily engaged in the manufacture of dual-purpose sleep furniture, such as studio couches, sofa beds, and chair beds, are classified in Industry 2515, Mattresses and Bedsprings, regardless of the material used in the frame.

The total value of shipments for establishments classified in the Metal Household Furniture industry amounted to $1,307 million in 1977, an increase of 47 percent from 1972. The value of shipments of products classified as primary to the industry was $1,231 million, an increase of 43 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were metal porch, lawn, outdoor, and casual furniture, for which shipments increased 56 percent, and metal household dining, dinette, and breakfast furniture, for which shipments increased 30 percent. Value added by manufacture, at $637 million in 1977, was 43 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 33.2 thousand employees, a decrease of 3 percent from 1972. The leading States in employment were California, Illinois, North Carolina, and New York, accounting for approximately 40 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 7 percent of total value of shipments.

INDUSTRY 2515, MATTRESSES AND BEDSPRINGS

This industry comprises establishments primarily engaged in the manufacture of innerspring mattresses, box spring mattresses, and noninnerspring mattresses containing felt, foam rubber, urethane, hair, or any other filling material; and assembled wire springs (fabric, coil, or box) for use on beds, couches, and cots. This industry also includes establishments primarily engaged in the manufacture of dual-purpose sleep furniture, such as studio couches, sofa beds, and chair beds regardless of the material used in the frame. Establishments primarily engaged in the manufacture of automobile seats and backs are classified in Industry 2531, Public Building and Related Furniture; individual wire springs in Industry 3495, Wire Springs; and paddings and upholstery filling in Industry 2293, Paddings and Upholstery Filling.

The total value of shipments for establishments classified in the Mattresses and Bedsprings industry amounted to $1,399 million in 1977, an increase of 34 percent from 1972. The value of shipments of products classified as primary to the industry was $1,482 million, an increase of 37 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were innerspring mattresses, for which shipments increased 46 percent, and convertible sofas, for which shipments increased 45 percent. Value added by manufacture, at 617 million in 1977, was 28 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 27.0 thousand employees, a decrease of 14 percent from 1972. The leading States in employment were California, Texas, Ohio, and New Jersey, accounting for approximately 35 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 10 percent of total value of shipments.

INDUSTRY 2517, WOOD TV AND RADIO CABINETS

This industry comprises establishments primarily engaged in the manufacture of wood cabinets for radios, television sets, phonographs, audio speakers, and sewing machines. Establishments primarily engaged in the manufacture of wood household furniture are classified in Industry 2511, Wood Household Furniture.

The total value of shipments for establishments classified in the Wood TV and Radio Cabinets industry amounted to $305 million in 1977, a decrease of 8 percent from 1972. The value of shipments of products classified as primary to the industry was $313 million, an increase of 7 percent from 1972. (See the

Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change refelcted a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $150 million in 1977, was 15 percent under value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 10.7 thousand employees, a decrease of 43 percent from 1972. The leading States in employment were Indiana, California, Tennessee, and Arkansas, accounting for approximately 80 percent of the industry's 1977 employment. Data for Tennessee and Arkansas have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

INDUSTRY 2519, HOUSEHOLD FURNITURE, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of reed, rattan and other wicker furniture, plastics and fiberglass household furniture and cabinets, and household furniture not elsewhere classified.

The total value of shipments for establishments classified in the Household Furniture, N.E.C. industry amounted to $302 million in 1977, an increase of 75 percent from 1972. The value of shipments of products classified as primary to the industry was $282 million, an increase of 48 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were reed and rattan furniture, for which shipments increased 97 percent, and plastic cabinets, for which shipments increased 43 percent. Value added by manufacture, at $131 million in 1977, was 37 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 8.7 thousand employees, an increase of 26 percent from 1972. The leading States in employment were Indiana, California, Illinois and Ohio, accounting for approximately 55 percent of the industry's 1977 employment. Data for Indiana have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 9 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2511, WOOD HOUSEHOLD FURNITURE[3]																
1977 Census--	2 796	2 982	815	140.8	1 137.3	124.6	244.5	897.3	2 235.0	1 931.2	4 140.3	101.6	(NA)	821.2	94	96
1976 ASM----	(NA)	(NA)	(NA)	137.9	1 041.3	121.1	232.1	816.2	1 999.4	1 822.6	3 780.1	91.6	1 112.0	722.5	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	123.5	865.8	108.2	200.6	671.0	1 575.2	1 461.0	3 095.4	81.0	1 067.3	651.0	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	138.2	927.2	121.7	238.5	733.3	1 808.4	1 647.1	3 381.0	148.8	989.2	717.0	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	135.1	905.4	126.8	255.3	715.0	1 709.4	1 530.1	3 201.3	115.1	880.9	632.2	(NA)	(NA)
1972 Census--	2 173	2 348	827	133.8	806.8	118.8	240.9	642.3	1 556.9	1 355.1	2 870.0	93.8	803.3	513.2	94	95
INDUSTRY 2512, UPHOLSTERED HOUSEHOLD FURNITURE																
1977 Census--	1 357	1 473	730	89.1	779.2	75.7	137.6	583.9	1 437.3	1 510.6	2 931.0	50.4	(NA)	378.6	91	96
1976 ASM----	(NA)	(NA)	(NA)	79.2	658.2	67.6	123.6	491.1	1 207.2	1 246.5	2 445.9	47.3	461.7	306.7	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	74.4	597.0	63.4	115.8	440.8	1 068.2	1 111.0	2 186.1	25.6	439.5	286.4	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	88.5	635.3	75.3	139.2	477.3	1 173.6	1 142.2	2 309.8	45.4	413.0	318.7	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	94.9	652.0	80.5	151.6	497.9	1 173.3	1 106.1	2 273.4	47.9	371.5	300.9	(NA)	(NA)
1972 Census--	1 203	1 308	770	92.0	605.3	78.3	150.2	454.7	1 104.0	1 017.9	2 104.7	54.7	338.3	251.4	92	95
1971 ASM----	(NA)	(NA)	(NA)	84.3	525.9	72.5	142.7	402.9	938.4	870.0	1 809.2	24.8	294.4	211.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	83.7	493.5	72.1	139.1	378.3	886.2	795.9	1 687.4	55.5	289.9	199.6	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	83.5	461.7	72.2	139.8	350.4	839.1	718.9	1 555.3	28.5	245.3	176.6	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	80.3	425.1	69.9	135.1	326.4	779.8	664.1	1 440.4	23.1	226.4	159.4	(NA)	(NA)
1967 Census--	1 582	1 644	727	75.2	376.2	64.8	125.9	287.0	670.3	600.3	1 266.4	17.1	209.1	142.6	93	94
1966 ASM----	(NA)	(NA)	(NA)	77.9	371.6	67.1	129.4	280.7	654.9	613.3	1 265.0	24.8	(NA)	128.0	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	75.0	351.0	64.5	125.6	265.9	601.2	570.2	1 173.5	22.2	(NA)	116.8	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	72.5	314.1	62.1	119.3	245.1	550.0	525.0	1 068.9	14.5	147.6	110.5	(NA)	(NA)
1963 Census--	1 729	1 785	713	67.8	67.8	57.9	113.2	225.6	506.7	478.9	983.2	13.7	133.9	104.3	92	92
INDUSTRY 2514, METAL HOUSEHOLD FURNITURE																
1977 Census--	405	448	213	33.2	302.2	27.4	51.6	208.6	637.4	684.0	1 307.1	22.5	(NA)	217.0	89	91
1976 ASM----	(NA)	(NA)	(NA)	30.5	269.4	24.8	46.9	179.6	522.3	559.7	1 079.5	17.2	199.9	184.2	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	28.3	234.8	22.7	41.9	156.2	439.8	483.2	938.9	14.7	196.3	165.4	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	35.4	257.5	28.8	53.8	176.9	483.6	529.4	1 003.0	18.2	199.2	203.0	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	36.9	253.6	30.6	58.9	177.9	508.8	506.6	999.8	25.5	193.7	169.7	(NA)	(NA)
1972 Census--	427	467	230	34.4	222.5	28.6	53.7	157.6	447.2	452.4	890.4	16.9	174.3	133.8	90	91
1971 ASM----	(NA)	(NA)	(NA)	31.5	194.2	25.8	49.7	133.7	386.3	380.4	763.9	10.8	146.6	118.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	32.4	188.1	26.7	50.4	131.3	365.8	360.7	724.9	13.8	148.6	113.5	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	32.8	181.4	27.6	52.4	132.6	346.2	352.8	697.1	12.9	129.2	101.8	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	32.1	169.4	26.5	51.2	120.5	333.9	333.2	664.3	10.1	127.6	92.6	(NA)	(NA)
1967 Census--	454	486	251	31.0	155.5	25.8	50.3	109.6	291.3	312.0	605.3	10.1	125.8	83.6	90	90
1966 ASM----	(NA)	(NA)	(NA)	31.3	150.8	25.7	51.6	106.3	289.4	310.3	595.3	13.8	(NA)	87.1	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	31.2	143.6	25.9	51.0	102.6	285.0	302.3	583.3	9.9	(NA)	79.2	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	31.1	141.3	25.9	51.4	102.0	258.3	307.0	564.9	8.9	98.5	75.9	(NA)	(NA)
1963 Census--	508	517	244	29.3	126.8	24.3	47.9	92.0	247.0	280.7	524.3	6.8	91.7	69.9	88	89
INDUSTRY 2515, MATTRESSES AND BEDSPRINGS																
1977 Census--	832	962	355	27.0	279.8	20.6	39.3	175.3	616.6	788.6	1 398.5	14.5	(NA)	155.6	95	86
1976 ASM----	(NA)	(NA)	(NA)	25.8	252.3	19.8	38.0	160.7	563.9	672.4	1 231.3	13.6	208.5	130.5	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	25.0	228.3	19.5	36.7	144.5	495.3	612.2	1 110.5	20.9	205.7	120.8	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	28.2	233.3	21.9	41.4	147.6	538.0	612.4	1 145.7	17.3	200.7	133.0	(NA)	(NA)
1973 ASM[6]---	(NA)	(NA)	(NA)	33.6	259.0	26.2	50.4	167.6	538.1	659.5	1 197.2	21.9	218.5	138.5	(NA)	(NA)
1972 Census--	888	977	370	31.4	233.7	24.2	47.1	149.7	479.9	565.4	1 048.3	20.7	216.6	112.9	94	88
1971 ASM----	(NA)	(NA)	(NA)	32.4	221.0	25.1	49.0	144.3	449.0	523.2	968.9	25.2	196.8	107.1	(NA)	(NA)
1970 ASM[6]---	(NA)	(NA)	(NA)	31.2	202.1	24.0	47.6	129.0	390.7	456.9	849.8	21.5	179.9	95.3	(NA)	(NA)
1969 ASM[6]---	(NA)	(NA)	(NA)	33.1	204.1	25.8	51.6	132.7	394.5	477.8	869.4	18.1	166.1	96.1	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	32.1	194.8	25.0	49.7	127.2	378.3	456.8	833.6	11.6	157.8	90.3	(NA)	(NA)
1967 Census--	939	1 013	341	31.2	171.5	24.4	47.8	110.7	335.5	408.8	745.1	10.3	146.3	83.6	91	91
1966 ASM[6]---	(NA)	(NA)	(NA)	32.2	170.4	25.1	49.7	109.9	335.6	405.3	735.6	8.7	(NA)	86.4	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	31.9	165.8	24.6	48.9	106.7	324.8	395.8	720.9	10.1	(NA)	73.9	(NA)	(NA)
1964 ASM[6]---	(NA)	(NA)	(NA)	30.4	153.5	23.1	45.9	99.7	296.7	367.7	662.6	5.1	144.2	75.9	(NA)	(NA)
1963 Census--	1 066	1 120	340	30.1	146.3	23.0	45.8	94.6	285.5	358.0	641.0	7.3	140.1	73.5	90	90

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2517, WOOD TV AND RADIO CABINETS[3]																
1977 Census--	91	94	51	10.7	89.0	9.3	17.6	70.5	150.4	155.0	304.8	11.1	(NA)	30.5	92	90
1976 ASM----	(NA)	(NA)	(NA)	10.3	72.1	9.0	16.9	56.7	147.3	143.2	290.7	2.4	69.1	35.2	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	9.1	60.9	7.7	14.2	46.4	117.5	116.0	240.8	2.2	67.8	33.7	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	15.1	94.9	12.7	23.7	72.4	151.4	195.0	346.2	7.8	104.6	54.8	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	18.5	112.8	16.2	30.5	87.5	189.0	179.2	356.5	10.7	89.9	65.4	(NA)	(NA)
1972 Census--	95	103	65	18.9	111.2	16.6	32.4	87.5	176.9	160.2	330.2	9.5	85.0	49.8	85	91
INDUSTRY 2519, HOUSEHOLD FURNITURE, N.E.C.																
1977 Census--	198	201	59	8.7	79.7	7.5	14.3	61.7	131.0	172.6	301.9	10.4	(NA)	34.1	79	84
1976 ASM[5]---	(NA)	(NA)	(NA)	5.8	48.2	4.8	9.2	35.8	103.4	110.4	213.8	7.5	71.3	26.1	(NA)	(NA)
1975 ASM[5]---	(NA)	(NA)	(NA)	5.7	48.9	4.8	9.3	36.2	104.6	94.0	197.8	4.7	68.3	28.0	(NA)	(NA)
1974 ASM[6]---	(NA)	(NA)	(NA)	6.6	48.6	5.6	10.7	37.4	94.0	85.8	179.3	6.1	64.0	28.2	(NA)	(NA)
1973 ASM[6]---	(NA)	(NA)	(NA)	7.8	52.1	6.6	12.7	38.8	100.3	89.3	189.1	7.8	50.7	22.7	(NA)	(NA)
1972 Census--	157	166	73	6.9	44.2	5.9	11.0	33.0	95.6	80.1	172.6	7.0	47.9	20.2	84	73
1971 ASM[5]---	(NA)	(NA)	(NA)	2.6	15.3	2.1	4.0	10.8	28.3	21.9	50.9	1.3	12.6	4.8	(NA)	(NA)
1970 ASM[5]---	(NA)	(NA)	(NA)	3.1	17.4	2.6	5.1	12.9	28.4	21.2	49.9	0.8	14.2	5.6	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	3.0	17.1	2.6	5.1	12.8	30.4	28.2	57.5	1.1	12.7	7.6	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	3.3	18.0	2.8	5.8	12.9	33.9	32.1	65.0	0.9	15.0	7.8	(NA)	(NA)
1967 Census--	75	79	36	3.0	14.8	2.6	5.2	10.9	30.4	24.7	55.3	1.3	16.2	6.2	83	56
1966 ASM[6]---	(NA)	(NA)	(NA)	4.6	22.3	4.0	8.1	15.5	41.4	37.8	78.2	5.9	(NA)	8.9	(NA)	(NA)
1965 ASM[6]---	(NA)	(NA)	(NA)	3.3	16.5	2.8	5.8	11.1	29.0	23.7	52.1	5.0	(NA)	5.7	(NA)	(NA)
1964 ASM[6]---	(NA)	(NA)	(NA)	2.2	10.0	1.8	3.9	6.8	18.1	15.9	34.0	0.7	8.3	3.9	(NA)	(NA)
1963 Census--	72	75	30	2.1	8.4	1.7	3.4	5.9	15.1	13.8	28.9	0.8	7.3	3.7	84	51

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2511, WOOD HOUSEHOLD FURNITURE											
1977 Census--	8 078	(NA)	88	1 963	3.66	46	74	(NA)	15 875	50	9.13
1976 ASM----	7 551	8 063	87	1 916	3.51	48	75	29	14 498	52	8.61
1975 ASM----	7 010	8 642	87	1 853	3.34	47	75	34	12 754	54	7.85
1974 ASM----	6 709	7 157	88	1 959	3.07	48	76	29	13 085	51	7.58
1973 ASM----	6 701	6 520	93	2 013	2.80	47	76	27	12 652	52	6.69
1972 Census--	6 029	6 003	88	2 027	2.66	47	75	27	11 636	51	6.46
INDUSTRY 2512, UPHOLSTERED HOUSEHOLD FURNITURE											
1977 Census--	8 749	(NA)	85	1 817	4.24	51	78	(NA)	16 139	54	10.44
1976 ASM----	8 310	5 829	85	1 828	3.97	50	77	18	15 242	54	9.76
1975 ASM----	8 024	5 907	85	1 826	3.80	50	78	20	14 357	55	9.22
1974 ASM----	7 178	4 666	85	1 848	3.42	49	76	17	13 261	54	8.43
1973 ASM----	6 870	3 914	84	1 883	3.28	48	77	16	12 363	55	7.73
1972 Census--	6 579	3 677	85	1 918	3.02	48	77	16	12 000	54	7.35
1971 ASM----	6 238	3 492	86	1 968	2.82	48	77	16	11 131	56	6.57
1970 ASM----	5 896	3 463	86	1 929	2.71	47	76	17	10 587	55	6.37
1969 ASM----	5 529	2 937	86	1 936	2.50	46	75	15	10 049	55	6.00
1968 ASM----	5 293	2 819	87	1 932	2.41	46	75	15	9 711	54	5.77
1967 Census--	5 002	2 780	86	1 942	2.27	47	77	16	8 913	56	5.32
1966 ASM----	4 770	(NA)	86	1 928	2.16	48	77	(NA)	8 406	56	5.06
1965 ASM----	4 680	(NA)	86	1 947	2.11	48	78	(NA)	8 016	58	4.78
1964 ASM----	4 332	2 035	85	1 921	2.05	49	78	13	7 586	57	4.61
1963 Census--	998	1 972	85	1 955	1.99	48	55	13	7 462	13	4.47
INDUSTRY 2514, METAL HOUSEHOLD FURNITURE											
1977 Census--	9 102	(NA)	82	1 881	4.04	52	75	(NA)	19 201	47	12.35
1976 ASM----	8 832	6 554	81	1 891	3.82	51	76	18	17 124	51	11.13
1975 ASM----	8 296	6 936	80	1 845	3.72	51	76	20	15 540	53	10.49
1974 ASM----	7 274	5 627	81	1 868	3.28	52	78	19	13 661	53	8.98
1973 ASM----	6 872	5 249	82	1 924	3.02	50	76	19	13 788	49	8.63
1972 Census--	6 468	5 066	83	1 877	2.93	50	75	19	13 000	49	8.32
1971 ASM----	6 165	4 653	81	1 926	2.69	49	75	19	12 263	50	7.77
1970 ASM----	5 805	4 586	82	1 887	2.60	49	75	20	11 290	51	7.25
1969 ASM----	5 530	3 939	84	1 898	2.53	50	76	18	10 554	52	6.60
1968 ASM----	5 277	3 975	82	1 932	2.35	50	75	19	10 401	50	6.52
1967 Census--	5 016	4 058	83	1 949	2.17	51	77	20	9 396	53	5.79
1966 ASM----	4 817	(NA)	82	2 007	2.06	52	77	(NA)	9 246	52	5.60
1965 ASM----	4 602	(NA)	83	1 969	2.01	51	76	(NA)	9 134	50	5.58
1964 ASM----	4 543	3 102	83	1 984	1.98	54	79	17	8 305	54	5.02
1963 Census--	4 395	3 129	82	1 971	1.92	53	78	17	8 430	52	5.15
INDUSTRY 2515, MATTRESSES AND BEDSPRINGS											
1977 Census--	10 353	(NA)	76	1 910	4.45	56	76	(NA)	22 817	45	15.68
1976 ASM----	9 779	8 081	76	1 919	4.22	54	75	16	21 856	44	14.83
1975 ASM----	9 132	8 228	78	1 882	3.93	55	75	18	19 812	46	13.49
1974 ASM----	8 273	7 117	77	1 890	3.56	53	73	17	19 078	43	12.99
1973 ASM----	7 708	6 502	77	1 923	3.32	55	76	18	16 014	48	10.67
1972 Census--	7 442	6 898	77	1 946	3.17	54	76	21	15 283	48	10.18
1971 ASM----	6 820	6 074	77	1 952	2.94	53	76	20	13 858	49	9.16
1970 ASM----	6 477	5 766	76	1 983	2.71	53	77	21	12 522	51	8.20
1969 ASM----	6 166	5 018	77	2 000	2.57	54	78	19	11 918	51	7.64
1968 ASM----	6 068	4 915	77	1 988	2.55	54	78	18	11 785	51	7.61
1967 Census--	5 496	4 689	78	1 959	2.31	54	77	19	10 753	51	7.01
1966 ASM----	5 291	(NA)	77	1 980	2.21	55	78	(NA)	10 422	50	6.75
1965 ASM----	5 197	(NA)	77	1 987	2.18	54	77	(NA)	10 181	51	6.64
1964 ASM----	5 049	4 743	75	1 987	2.17	55	78	21	9 759	51	6.46
1963 Census--	4 860	4 654	76	1 991	2.06	55	78	21	9 485	51	6.23

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2517, WOOD TV AND RADIO CABINETS										
1977 Census--	6 308	(NA)	86	1 889	4.01	50	80	(NA)	14 033	59	8.56
1976 ASM----	7 000	6 708	87	1 877	3.35	49	74	23	14 300	48	8.71
1975 ASM----	6 692	7 450	84	1 844	3.26	48	73	28	12 912	51	8.27
1974 ASM----	6 284	6 927	84	1 866	3.05	56	83	30	10 026	62	6.38
1973 ASM----	6 097	4 859	87	1 882	2.86	50	81	25	10 216	59	6.19
1972 Census--	5 883	4 497	87	1 951	2.70	48	82	25	9 359	62	5.45
	INDUSTRY 2519, HOUSEHOLD FURNITURE, N.E.C.										
1977 Census--	9 169	(NA)	85	1 912	4.31	57	83	(NA)	15 069	60	9.18
1976 ASM----	8 310	12 293	82	1 916	3.89	51	74	33	17 827	46	11.23
1975 ASM----	8 578	11 982	84	1 937	3.89	47	72	34	18 350	46	11.24
1974 ASM----	7 363	9 696	84	1 910	3.49	47	74	35	14 242	51	8.78
1973 ASM----	6 679	6 500	84	1 924	3.05	47	74	26	12 856	51	7.89
1972 Census--	6 405	6 942	85	1 864	3.00	46	72	27	13 855	46	8.69
1971 ASM----	5 884	4 846	80	1 904	2.70	43	73	24	10 884	54	7.07
1970 ASM----	5 612	4 580	83	1 961	2.52	42	77	28	9 161	61	5.56
1969 ASM----	5 700	4 233	86	1 961	2.50	49	78	22	10 133	56	5.96
1968 ASM----	5 454	4 545	84	2 071	2.22	49	77	23	10 090	54	5.74
1967 Census--	4 933	5 400	86	2 000	2.09	44	71	29	10 133	48	5.84
1966 ASM----	4 847	(NA)	86	2 025	1.91	48	76	(NA)	9 000	53	5.11
1965 ASM----	5 000	(NA)	84	2 071	1.91	45	77	(NA)	8 787	56	5.00
1964 ASM----	4 545	3 772	81	2 166	1.74	48	76	24	8 227	55	4.64
1963 Census--	4 000	3 476	80	2 000	1.73	47	78	25	7 190	55	4.44

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2511, WOOD HOUSEHOLD FURNITURE													
United States	-	**2 982**	**815**	**140.8**	**1 137.3**	**124.6**	**244.5**	**897.3**	**2 235.0**	**1 931.2**	**4 140.3**	**101.6**	**133.8**	**1 556.9**
New England Division:													
Maine	-	25	9	0.8	5.8	0.7	1.4	4.8	13.2	7.7	21.2	0.4	BB	(D)
New Hampshire	E2	31	11	1.1	8.7	0.9	1.7	6.1	19.3	13.3	32.3	(D)	1.5	15.5
Vermont	E1	24	13	2.3	19.3	2.0	3.9	15.3	29.9	25.2	59.5	(D)	EE	(D)
Massachusetts	-	101	25	2.7	23.2	2.2	4.2	16.9	45.4	44.7	89.4	(D)	3.4	38.5
Connecticut	E2	34	5	0.6	5.1	0.4	0.8	3.2	8.2	7.3	15.4	(D)	0.6	8.5
Middle Atlantic Division:														
New York	E2	279	61	5.7	49.7	4.9	9.5	39.1	85.5	68.9	153.6	4.3	5.5	59.4
New Jersey	E2	81	12	0.8	6.9	0.7	1.2	5.0	15.9	17.6	33.5	(D)	1.2	16.8
Pennsylvania	-	114	34	3.6	30.8	3.2	6.5	23.8	58.7	51.0	107.2	3.0	4.6	48.8
East North Central Division:														
Ohio	-	55	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	29.8
Indiana	-	75	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.6	68.2
Illinois	E2	84	25	1.9	15.9	1.7	3.4	12.2	31.1	30.5	61.4	1.2	2.4	30.8
Michigan	-	74	29	3.0	28.6	2.5	5.0	20.5	49.9	34.2	83.1	(D)	3.5	42.5
Wisconsin	-	38	21	2.8	26.3	2.3	4.3	19.6	50.1	44.6	94.2	(D)	2.4	26.0
West North Central Division:														
Minnesota	E2	32	4	0.5	4.1	0.5	0.9	3.3	5.9	8.1	13.8	(D)	0.4	3.2
Missouri	E1	45	12	1.2	10.0	1.0	1.9	6.9	18.2	21.3	40.8	2.5	1.6	21.4
Nebraska	E1	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Kansas	E1	20	2	0.4	2.3	0.4	0.5	1.8	4.0	3.7	7.6	(D)	(NA)	(NA)
South Atlantic Division:														
Maryland	-	22	4	0.5	4.6	0.5	0.9	3.4	8.4	6.1	14.3	(D)	0.6	8.2
Virginia	-	67	37	18.1	136.1	16.5	33.3	111.8	267.0	255.1	525.3	(D)	18.6	236.2
North Carolina	-	218	125	41.0	332.2	37.1	73.9	273.4	676.3	530.0	1 200.1	27.8	35.0	409.1
South Carolina	E1	23	11	2.1	16.0	1.9	3.8	12.7	31.1	27.7	59.2	(D)	2.6	29.8
Georgia	E1	79	27	2.6	18.6	2.4	4.6	15.4	43.6	44.1	86.4	(D)	3.6	37.4
Florida	E3	189	22	2.2	17.2	1.9	3.8	13.3	34.3	30.3	63.8	2.2	2.4	24.7
East South Central Division:														
Kentucky	-	24	7	1.1	7.7	1.0	1.9	6.4	13.4	15.3	28.5	(D)	1.0	7.1
Tennessee	E1	113	28	6.9	54.1	6.1	11.5	39.3	95.8	90.6	186.0	5.5	6.2	69.2
Alabama	-	66	16	2.7	20.1	2.4	4.6	16.6	40.7	40.2	79.7	(D)	2.3	23.8
Mississippi	E1	57	15	4.0	29.6	3.4	6.7	22.3	58.9	48.6	108.4	1.9	2.2	23.1
West South Central Division:														
Arkansas	-	42	16	5.0	38.1	4.4	8.6	30.0	75.5	81.4	149.6	(D)	4.8	52.7
Louisiana	E6	18	2	0.2	1.2	0.1	0.3	0.9	2.6	2.5	5.1	(D)	0.2	1.7
Oklahoma	-	19	2	0.7	4.5	0.5	1.0	3.1	7.9	11.3	19.1	(D)	0.7	6.9
Texas	E1	118	29	3.8	27.4	3.3	6.2	21.2	50.3	49.2	98.6	2.6	2.7	30.3
Mountain Division:														
Colorado	E5	39	2	0.2	1.4	0.2	0.3	1.1	2.9	2.0	4.9	(D)	AA	(D)
Arizona	E8	38	5	0.3	2.1	0.2	0.5	1.6	3.5	3.5	7.0	(D)	0.5	4.4
Pacific Division:														
Washington	E1	49	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	7.0
Oregon	E1	44	7	0.9	8.1	0.8	1.5	6.3	16.0	10.4	27.4	(D)	1.4	18.7
California	E2	548	135	12.6	109.6	11.1	21.7	84.0	217.4	191.7	400.7	15.3	9.1	113.2
Hawaii	-	7	2	0.2	1.5	0.1	0.2	0.9	4.7	1.0	5.7	(D)	(NA)	(NA)
INDUSTRY 2512, UPHOLSTERED HOUSEHOLD FURNITURE														
United States	-	**1 473**	**730**	**89.1**	**779.2**	**75.7**	**137.6**	**563.9**	**1 437.3**	**1 510.6**	**2 931.0**	**50.4**	**92.0**	**1 104.0**
New England Division:														
Massachusetts	-	48	19	1.7	16.2	1.4	2.6	10.7	26.3	25.1	51.7	(D)	2.0	24.8
Connecticut	-	13	8	0.4	3.5	0.3	0.6	2.6	6.0	6.8	12.7	(D)	0.5	4.9
Middle Atlantic Division:														
New York	E1	84	17	2.1	19.3	1.7	3.1	14.5	33.8	30.1	63.7	0.5	FF	(D)
New Jersey	E3	21	4	0.3	2.3	0.2	0.4	1.6	3.8	4.5	8.4	(D)	0.2	2.9
Pennsylvania	-	56	25	2.3	22.0	1.9	3.5	15.9	36.7	40.0	76.8	0.8	FF	(D)
East North Central Division:														
Ohio	-	22	7	1.1	12.4	0.9	1.7	8.9	20.9	18.3	39.0	0.6	1.7	22.8
Indiana	-	26	18	2.2	19.8	1.7	3.2	14.7	33.6	38.1	71.6	0.8	2.7	33.1
Illinois	E1	34	16	2.7	26.6	2.2	4.0	20.4	47.2	45.1	92.0	1.9	2.9	39.0
Michigan	E1	26	12	1.5	15.7	1.2	2.2	10.6	15.2	19.6	34.7	(D)	1.8	22.3
Wisconsin	-	10	6	1.3	12.6	0.9	1.8	7.0	26.9	18.7	44.8	(D)	1.5	21.9
West North Central Division:														
Iowa	-	11	6	1.2	16.7	0.9	1.7	9.8	27.7	26.3	53.9	(D)	1.3	18.5
Missouri	-	22	8	1.5	13.1	1.2	2.1	10.0	29.5	23.8	51.7	(D)	0.9	13.0
Nebraska	-	3	3	0.3	3.4	0.3	0.5	2.1	6.4	4.4	10.9	(Z)	0.4	5.9
Kansas	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Atlantic Division:														
Maryland	E3	10	3	0.3	2.6	0.2	0.4	1.8	4.1	4.1	8.2	(D)	0.7	7.0
Virginia	-	24	16	2.4	18.7	1.9	3.4	13.4	35.0	39.5	72.0	(D)	2.8	33.3
West Virginia	E4	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.5
North Carolina	-	286	180	26.6	221.3	23.2	41.5	173.8	418.9	460.7	876.2	20.7	24.0	284.3
South Carolina	-	9	5	0.9	8.7	0.8	1.6	7.2	17.0	14.1	30.8	(D)	1.4	15.7
Georgia	E1	22	13	1.7	13.4	1.4	2.6	8.7	22.9	27.4	50.0	0.4	2.0	25.1
Florida	E1	42	14	0.9	7.1	0.8	1.5	5.3	11.7	12.2	23.9	0.3	1.5	14.5

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2512, UPHOLSTERED HOUSEHOLD FURNITURE—Con.														
East South Central Division:														
Kentucky	E2	11	6	0.4	3.0	0.3	0.5	2.0	5.3	5.1	10.3	0.1	0.7	7.6
Tennessee	–	105	55	8.0	64.6	6.8	12.5	47.5	118.6	121.5	237.4	4.8	8.5	89.8
Alabama	E2	29	16	1.2	8.9	1.1	1.8	6.6	20.1	19.4	39.4	0.8	1.4	13.0
Mississippi	–	65	44	8.4	65.9	7.4	13.6	53.3	139.3	170.4	308.0	3.3	7.6	102.0
West South Central Division:														
Arkansas	–	30	14	2.1	15.9	1.9	3.5	12.8	32.7	35.3	67.6	0.5	2.1	21.5
Louisiana	–	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.4
Oklahoma	E3	18	4	0.3	2.6	0.3	0.5	1.9	5.4	5.8	11.2	(D)	0.3	3.2
Texas	–	65	40	3.4	27.9	3.0	5.3	20.6	46.6	56.6	103.0	1.0	3.5	34.2
Mountain Division:														
Colorado	E2	14	4	0.2	2.4	0.2	0.4	1.9	4.1	4.0	8.1	(D)	0.4	4.0
Arizona	E1	12	7	0.3	2.5	0.2	0.4	1.8	4.3	5.0	9.3	(D)	BB	(D)
Utah	–	11	4	0.3	2.7	0.3	0.5	1.8	5.1	3.1	8.3	(D)	0.4	3.2
Pacific Division:														
Washington	E3	15	10	0.8	7.1	0.7	1.1	5.3	12.7	12.5	25.2	(D)	BB	(D)
Oregon	E1	19	8	0.7	7.0	0.6	1.1	5.1	11.1	12.3	23.6	(D)	0.5	6.7
California	E1	263	122	10.2	102.1	8.7	16.1	76.1	189.8	183.6	371.3	4.6	9.5	119.2
Hawaii	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
INDUSTRY 2514, METAL HOUSEHOLD FURNITURE														
United States	–	**448**	**213**	**33.2**	**302.2**	**27.4**	**51.6**	**208.6**	**637.4**	**684.0**	**1 307.1**	**22.8**	**34.4**	**447.2**
New England Division:														
Massachusetts	E3	12	6	0.5	4.0	0.4	0.8	2.8	7.7	8.9	16.7	0.2	CC	(D)
Connecticut	E1	4	2	0.2	1.2	0.1	0.3	1.0	1.9	3.2	5.1	(D)	BB	(D)
Middle Atlantic Division:														
New York	E2	76	22	2.1	23.2	1.8	3.4	14.7	42.9	39.0	81.6	(D)	FF	(D)
New Jersey	E1	18	7	1.0	7.3	0.8	1.4	4.8	16.5	19.6	36.0	(D)	0.9	9.7
Pennsylvania	E1	26	16	2.0	18.8	1.7	3.3	13.7	31.0	44.8	78.7	0.4	EE	(D)
East North Central Division:														
Ohio	–	17	10	2.0	18.1	1.6	2.7	12.8	33.4	46.1	78.8	0.9	1.2	17.6
Indiana	–	6	6	1.5	12.9	1.2	2.2	9.0	32.9	31.1	62.7	0.5	2.2	26.7
Illinois	–	34	19	4.0	47.5	3.1	6.2	30.4	94.9	103.9	198.2	3.4	3.5	56.1
Michigan	–	9	4	0.3	2.9	0.2	0.4	2.0	6.8	7.2	13.7	(D)	0.3	5.7
Wisconsin	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West North Central Division:														
Minnesota	–	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Missouri	–	9	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Atlantic Division:														
Virginia	–	6	3	1.3	11.0	1.1	2.1	7.8	26.1	23.5	49.0	(D)	1.7	18.0
West Virginia	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina	–	20	13	2.2	17.1	2.0	3.7	13.6	36.6	41.4	74.6	1.3	1.7	17.3
Georgia	–	7	3	0.4	2.4	0.4	0.7	2.1	7.8	9.2	16.9	0.2	CC	(D)
Florida	E1	36	15	0.9	7.5	0.8	1.4	5.4	17.2	16.2	32.1	1.0	1.0	11.4
East South Central Division:														
Kentucky	–	5	5	1.1	8.2	0.9	1.8	6.1	16.2	19.1	34.9	1.7	EE	(D)
Tennessee	–	10	7	1.9	18.6	1.5	2.7	11.5	40.8	41.1	79.9	2.0	2.0	22.8
Alabama	–	10	8	1.1	9.0	1.0	1.7	7.0	20.5	16.1	36.1	0.8	1.1	13.9
Mississippi	–	4	4	1.3	12.0	1.1	2.0	7.2	19.7	36.6	55.9	(D)	EE	(D)
West South Central Division:														
Arkansas	–	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Louisiana	–	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas	–	16	7	1.3	8.4	1.2	2.0	7.2	21.3	21.6	40.7	0.3	1.7	19.9
Pacific Division:														
California	–	80	40	5.8	52.6	4.6	9.1	35.6	122.1	112.1	232.5	4.3	FF	(D)
INDUSTRY 2515, MATTRESSES AND BEDSPRINGS														
United States	E1	**962**	**355**	**27.0**	**279.8**	**20.6**	**39.3**	**175.3**	**616.6**	**788.6**	**1 398.5**	**14.5**	**31.4**	**479.9**
New England Division:														
Massachusetts	E1	30	7	0.5	5.2	0.4	0.8	3.3	12.3	16.6	28.8	0.1	0.8	12.3
Connecticut	–	11	6	0.7	7.1	0.5	0.9	4.7	16.8	21.7	38.4	0.5	0.8	17.8
Middle Atlantic Division:														
New York	E2	70	15	1.0	10.8	0.7	1.3	6.8	22.0	26.5	48.4	0.3	1.9	25.3
New Jersey	E1	32	14	1.7	17.9	1.3	2.5	11.9	36.4	42.5	77.1	(D)	2.2	39.7
Pennsylvania	–	35	18	0.9	10.3	0.7	1.2	5.7	24.1	29.2	52.8	0.7	1.0	17.4
East North Central Division:														
Ohio	–	32	19	1.8	19.5	1.4	2.8	13.4	42.1	62.2	104.6	0.7	2.1	33.2
Indiana	–	14	7	1.2	13.4	0.8	1.6	8.8	14.3	25.6	42.1	0.4	2.0	24.4
Illinois	–	46	18	1.1	12.7	0.9	1.6	7.9	34.4	37.4	71.2	0.5	1.0	18.5
Michigan	–	31	9	0.5	5.9	0.4	0.8	3.7	15.2	19.7	34.2	0.2	0.5	9.3
Wisconsin	–	13	3	0.2	2.5	0.2	0.3	1.6	8.2	8.8	17.0	(D)	(NA)	(NA)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2515, MATTRESSES AND BEDSPRINGS—Con.														
West North Central Division:														
Minnesota	-	18	6	0.5	6.1	0.3	0.5	2.9	12.0	11.3	23.2	(D)	0.5	6.2
Iowa	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Missouri	-	26	10	0.7	8.1	0.6	1.2	5.2	16.1	22.9	38.7	(D)	0.8	12.5
Nebraska	-	7	4	0.2	2.1	0.2	0.3	1.4	4.3	6.5	10.8	(D)	AA	(D)
Kansas	-	12	4	0.4	4.1	0.3	0.6	2.0	7.8	9.8	17.6	(D)	0.8	11.9
South Atlantic Division:														
Maryland	-	13	7	0.7	6.4	0.5	1.0	3.5	8.4	17.3	25.8	(D)	0.5	5.8
Virginia	E1	16	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.0
West Virginia	-	5	4	0.2	1.6	0.2	0.3	1.0	3.3	6.5	9.8	(D)	0.2	1.9
North Carolina	E2	32	18	1.0	8.6	0.7	1.3	4.8	16.5	22.2	38.7	(D)	1.1	13.6
South Carolina	-	9	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Georgia	-	34	18	1.4	13.6	1.1	2.1	9.1	26.4	40.3	66.0	0.7	1.4	21.1
Florida	-	63	23	1.4	13.1	1.0	2.0	8.2	30.7	36.3	66.6	0.7	1.2	17.6
East South Central Division:														
Kentucky	-	15	3	0.2	2.1	0.2	0.3	1.3	6.2	7.1	13.4	0.1	AA	(D)
Tennessee	-	24	8	1.1	10.1	0.8	1.5	5.2	23.4	29.7	52.6	0.8	1.7	21.4
Alabama	-	20	5	0.3	2.6	0.3	0.5	1.6	5.2	10.4	15.7	0.2	0.5	6.2
Mississippi	-	15	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Louisiana	E1	21	3	0.2	1.6	0.1	0.2	0.9	3.5	4.2	7.6	(D)	BB	(D)
Oklahoma	E1	18	5	0.2	2.2	0.2	0.3	1.1	6.4	9.0	15.2	(D)	AA	(D)
Texas	-	74	28	2.1	19.3	1.6	3.1	12.6	53.2	66.5	118.2	2.1	EE	(D)
Mountain Division:														
Colorado	-	10	7	0.4	4.0	0.3	0.6	2.3	9.5	12.1	21.4	(D)	0.3	7.5
Arizona	E3	19	3	0.2	1.9	0.1	0.2	1.1	5.1	5.9	11.0	(D)	0.3	3.9
Utah	E3	6	4	0.2	1.8	0.1	0.3	1.2	3.5	4.6	8.1	(D)	AA	(D)
Pacific Division:														
Washington	E2	18	9	0.5	5.1	0.3	0.6	3.2	14.5	13.3	27.5	(D)	0.3	6.1
California	E1	113	42	3.4	40.8	2.6	5.3	26.9	88.9	103.3	191.1	1.5	4.0	64.5
INDUSTRY 2517, WOOD TV AND RADIO CABINETS														
United States	-	**94**	**51**	**10.7**	**89.0**	**9.3**	**17.6**	**70.5**	**150.4**	**155.0**	**304.8**	**11.1**	**18.9**	**176.9**
Middle Atlantic Division:														
New York	E5	11	2	0.2	1.6	0.2	0.3	1.2	2.5	2.2	4.7	(Z)	AA	(D)
Pennsylvania	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East North Central Division:														
Ohio	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Indiana	-	9	8	4.2	40.5	3.7	7.5	33.8	65.0	63.8	128.7	6.5	FF	(D)
West North Central Division:														
Minnesota	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Missouri	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Division:														
Tennessee	E1	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
West South Central Division:														
Arkansas	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Pacific Division:														
California	-	25	15	1.7	12.2	1.4	2.4	8.8	21.5	32.8	54.2	0.4	CC	(D)
INDUSTRY 2519, HOUSEHOLD FURNITURE, N.E.C.														
United States	-	**201**	**59**	**8.7**	**79.7**	**7.5**	**14.3**	**61.7**	**131.0**	**172.8**	**301.9**	**10.4**	**6.9**	**95.6**
Middle Atlantic Division:														
New York	-	17	4	0.4	3.2	0.3	0.7	2.0	7.7	8.3	15.9	0.8	0.6	9.3
Pennsylvania	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East North Central Division:														
Ohio	-	5	4	0.7	6.3	0.6	1.2	4.8	13.3	16.6	29.9	(D)	CC	(D)
Indiana	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Illinois	-	10	7	0.9	8.1	0.8	1.6	6.3	13.7	16.9	30.5	1.2	CC	(D)
West North Central Division:														
Iowa	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Atlantic Division:														
Virginia	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	5.1
North Carolina	-	9	4	0.5	4.5	0.3	0.6	3.4	7.7	11.1	18.6	(D)	CC	(D)
Florida	E2	32	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
East South Central Division:														
Kentucky	E1	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Texas	E3	12	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
California	E3	48	11	1.0	8.2	0.8	1.7	6.3	18.6	15.6	33.4	0.8	CC	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Wood household furniture (SIC 2511)	Upholstered household furniture (SIC 2512)	Metal household furniture (SIC 2514)	Mattresses and bedsprings (SIC 2515)	Wood TV and radio cabinets (SIC 2517)	Household furniture, n.e.c. (SIC 2519)
Primary product specialization ratio[1]	percent	94	91	89	95	92	79
Coverage ratio[2]	do	96	96	91	86	90	84
All establishments	number	2 982	1 473	448	962	94	201
With 1 to 19 employees	do	2 167	743	235	607	43	142
With 20 to 99 employees	do	519	488	111	313	32	41
With 100 employees or more	do	296	242	102	42	19	18
All employees, average for year	1,000	140.8	89.1	33.2	27.0	10.7	8.7
Payroll for year, all employees	mil. dol.	1 137.3	779.2	302.2	279.8	89.0	79.7
Production workers:							
Average for year	1,000	124.6	75.7	27.4	20.6	9.3	7.5
March	do	121.6	74.1	28.4	20.4	8.7	7.1
May	do	123.2	74.6	28.8	20.3	8.8	7.3
August	do	125.0	75.6	24.2	20.9	9.6	7.6
November	do	128.0	78.2	28.2	20.7	10.0	7.9
Hours	millions	244.5	137.6	51.6	39.3	17.6	14.3
January to March	do	59.2	33.0	12.9	9.4	4.0	3.4
April to June	do	62.1	34.4	13.9	9.7	4.5	3.6
July to September	do	60.4	34.4	11.5	10.1	4.3	3.6
October to December	do	62.9	35.9	13.3	10.0	4.8	3.7
Wages	mil. dol.	897.3	583.9	208.6	175.3	70.5	61.7
Cost of materials, etc.	do	1 931.2	1 510.6	684.0	788.6	155.0	172.6
Materials, parts, containers, etc., consumed	do	1 740.6	1 450.2	633.8	736.3	148.3	159.7
Resales	do	116.0	33.0	24.6	40.8	(D)	(D)
Fuels consumed	do	22.2	8.0	5.6	4.4	1.1	2.2
Purchased electric energy	do	43.3	14.4	8.1	5.7	3.2	4.9
Contract work	do	9.0	5.0	11.8	1.4	(D)	(D)
Value of shipments, including resales	do	4 140.3	2 931.0	1 307.1	1 398.5	304.8	301.9
Value of resales	do	137.9	45.1	34.4	43.8	(D)	(D)
Value added by manufacture	do	2 235.0	1 437.3	637.4	616.6	150.4	131.0
Manufacturers' inventories:							
Beginning of year	do	771.2	341.2	197.9	142.7	31.6	30.5
Finished products	do	318.6	65.4	53.9	41.6	5.8	6.2
Work in process	do	175.8	69.3	41.0	15.0	9.2	9.3
Materials, supplies, fuel, etc.	do	276.8	206.5	103.1	86.1	16.6	15.1
End of year	do	821.2	378.6	217.0	155.6	30.5	34.1
Finished products	do	325.6	74.6	63.9	47.6	6.0	5.5
Work in process	do	194.6	76.9	45.2	15.7	9.7	11.6
Materials, supplies, fuel, etc.	do	301.0	227.1	107.9	92.3	14.9	17.0
Capital expenditures for plant and equipment	do	107.3	53.2	25.5	16.3	13.1	11.6
New capital expenditures	do	101.6	50.4	22.8	14.5	11.1	10.4
New buildings and other structures	do	26.6	16.6	4.7	3.7	5.1	3.3
New machinery and equipment	do	74.9	33.9	18.1	10.8	6.0	7.1
Used capital expenditures	do	5.7	2.7	2.7	1.8	2.0	1.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Wood household furniture (SIC 2511)		Upholstered household furniture (SIC 2512)		Metal household furniture (SIC 2514)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	7.1	8	2.3	6	(1.2)	2,708
Response coverage ratio[2] (percent)	62.3	(X)	51.7	(X)	48.0	(X)
Machinery	23.4	4	7.2	11	(5.3)	521
Response coverage ratio[2] (percent)	55.8	(X)	51.0	(X)	55.6	(X)
Cost of purchased communication services	6.2	12	5.4	10	(3.3)	705
Response coverage ratio[2] (percent)	56.6	(X)	51.1	(X)	60.0	(X)
Rental payments	33.4	14	24.4	8	14.2	7
Buildings and other structures	(20.3)	17	15.3	10	7.8	8
Machinery and equipment	13.0	12	9.1	7	6.3	13
Supplemental labor costs	183.1	1	113.6	2	48.6	5
Legal costs	103.1	1	61.7	2	27.0	4
Voluntary costs	80.0	2	51.9	3	21.6	7
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning of year	519.7	2	247.5	5	82.3	5
New capital expenditures	38.5	11	(24.8)	20	4.1	11
Used capital expenditures	(4.6)	54	(1.7)	29	(1.4)	29
Retirements	18.2	11	10.3	15	1.4	14
End of year	544.6	2	263.7	4	86.4	5
Machinery and equipment:						
Beginning of year	723.4	2	211.0	5	124.5	4
New capital expenditures	91.8	7	39.1	12	19.8	8
Automobiles, trucks, etc., for highway use[3]	(4.7)	(A)	(5.5)	(A)	(1.5)	(A)
Computers and peripheral data processing equipment[3]	(0.6)	(A)	(2.8)	(A)	(0.4)	(A)
All other[3]	(44.8)	45	(10.7)	(A)	(11.9)	(A)
New machinery and equipment, n.s.k.[4]	(41.7)	48	(50.0)	(A)	(6.0)	(A)
Used capital expenditures	(4.9)	28	(1.5)	38	1.8	9
Retirements	31.7	4	13.7	9	6.6	10
End of year	788.5	2	237.9	5	139.5	3
Total gross value of depreciable assets:						
Beginning of year	1,243.0	2	458.6	5	206.8	4
New capital expenditures	130.4	8	63.9	13	24.0	8
Used capital expenditures	(9.5)	30	(3.2)	24	3.1	14
Retirements	49.9	6	24.1	11	8.0	8
End of year	1,333.0	2	501.6	4	225.9	3
Depreciation charges during 1977	89.0	2	32.6	4	17.3	4
Buildings and other structures	22.6	2	10.4	4	4.0	5
Machinery and equipment	66.4	3	22.1	5	13.3	5

See footnotes at end of table.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977—Con.

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Mattresses and bedsprings (SIC 2515)		Wood TV and radio cabinets (SIC 2517)		Household furniture, n.e.c. (SIC 2519)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	1.3	15	1.6	4	(0.3)	46
Response coverage ratio[2] (percent)	43.1	(X)	38.8	(X)	78.8	(X)
Machinery	3.4	10	2.1	5	2.2	13
Response coverage ratio[2] (percent)	42.7	(X)	60.9	(X)	57.9	(X)
Cost of purchased communication services	2.8	14	0.7	5	(0.5)	25
Response coverage ratio[2] (percent)	60.9	(X)	61.0	(X)	68.2	(X)
Rental payments	25.1	12	(1.5)	15	1.9	12
Buildings and other structures	(16.2)	16	(0.8)	22	1.4	14
Machinery and equipment	8.9	11	(0.8)	31	0.5	11
Supplemental labor costs	42.4	2	16.0	2	15.1	2
Legal costs	22.4	2	7.8	2	6.3	2
Voluntary costs	20.0	3	8.2	3	8.8	3
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning or year	98.4	5	35.4	4	37.4	4
New capital expenditures	(6.4)	21	5.1	3	(3.6)	20
Used capital expenditures	(1.4)	52	0.6	-	-	(X)
Retirements	15.8	2	1.3	7	(0.5)	16
End of year	90.4	6	39.8	3	40.5	4
Machinery and equipment:						
Beginning of year	128.6	3	41.8	6	79.5	4
New capital expenditures	(12.3)	15	6.0	9	6.8	14
Automobiles, trucks, etc., for highway use[3]	(1.2)	(A)	(Z)	(A)	(0.1)	(A)
Computers and peripheral data processing equipment[3]	(0.3)	(A)	-	(X)	(Z)	(A)
All other[3]	(3.4)	(A)	(5.1)	(A)	(4.1)	(A)
New machinery and equipment, n.s.k.[4]	(7.5)	(A)	(0.8)	(A)	(2.6)	(A)
Used capital expenditures	(1.1)	32	1.3	1	0.8	1
Retirements	13.7	3	2.9	6	3.3	11
End of year	128.4	3	46.2	6	83.9	3
Total gross value of depreciable assets:						
Beginning of year	227.0	3	77.2	4	117.0	3
New capital expenditures	(18.8)	15	11.1	6	(10.4)	15
Used capital expenditures	(2.5)	32	1.9	1	0.8	1
Retirements	29.5	2	4.2	6	3.7	9
End of year	218.8	3	86.0	4	124.4	3
Depreciation charges during 1977	17.9	5	4.8	5	9.6	3
Buildings and other structures	4.9	10	1.4	3	1.9	3
Machinery and equipment	13.1	5	3.4	7	7.7	4

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2511, WOOD HOUSEHOLD FURNITURE												
Total	-	**2 982**	**140.8**	**1 137.3**	**124.6**	**244.5**	**897.3**	**2 235.0**	**1 931.2**	**4 140.3**	**101.6**	**821.2**
Establishments with an average of—												
1 to 4 employees	E8	1 399	2.1	16.4	2.1	3.6	12.9	26.3	30.0	64.3	1.8	12.0
5 to 9 employees	E7	428	2.9	22.1	2.7	4.9	17.3	44.2	38.4	81.9	2.5	15.9
10 to 19 employees	E4	340	4.6	37.9	4.0	8.1	28.9	72.9	73.4	145.2	3.8	25.8
20 to 49 employees	E2	333	10.5	81.4	9.1	17.1	61.4	156.9	149.4	305.2	7.4	52.1
50 to 99 employees	E1	186	13.2	100.0	11.5	22.0	77.6	210.7	191.4	396.8	11.5	79.4
100 to 249 employees	-	148	23.4	195.7	20.3	39.2	150.2	375.0	323.6	691.8	16.7	136.8
250 to 499 employees	-	91	32.5	261.9	29.3	57.3	214.9	537.9	474.4	1 004.9	26.8	195.4
500 to 999 employees	-	43	27.9	224.8	25.2	51.3	183.6	424.5	366.5	789.5	21.0	144.3
1,000 to 2,499 employees	-	13	(23.6)	(197.2)	(20.4)	(41.0)	(150.6)	(386.5)	(284.2)	(660.7)	(10.2)	(159.6)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	1 617	6.8	51.9	6.4	11.6	40.7	96.2	89.9	186.1	4.2	35.9
INDUSTRY 2512, UPHOLSTERED HOUSEHOLD FURNITURE												
Total	-	**1 473**	**89.1**	**779.2**	**75.7**	**137.6**	**583.9**	**1 437.3**	**1 510.6**	**2 931.0**	**50.4**	**378.6**
Establishments with an average of—												
1 to 4 employees	E8	367	0.6	5.1	0.6	1.0	3.9	7.9	10.1	20.2	0.4	2.4
5 to 9 employees	E8	167	1.1	9.4	1.0	1.7	7.0	17.7	18.3	36.1	0.7	4.3
10 to 19 employees	E6	209	2.9	24.2	2.4	4.4	18.3	41.6	42.3	83.9	1.5	10.4
20 to 49 employees	E1	280	9.0	75.1	7.6	13.7	55.4	129.5	138.8	268.1	3.8	34.5
50 to 99 employees	-	208	14.7	124.2	12.6	22.9	93.8	231.4	246.3	475.5	8.3	57.4
100 to 249 employees	-	164	24.2	215.1	20.4	37.5	159.3	397.8	432.6	824.2	11.0	108.8
250 to 499 employees	-	51	17.4	150.5	14.9	26.8	115.9	273.1	304.3	573.5	(24.7)	77.3
500 to 999 employees	-	24	15.1	137.8	12.9	23.9	105.3	267.5	259.8	521.8	(D)	68.7
1,000 to 2,499 employees	-	3	3.9	37.7	3.3	5.7	25.0	70.6	58.0	127.5	(D)	14.8
Covered by administrative records[2]	E0	570	3.4	27.5	3.0	5.2	20.7	50.6	53.4	104.0	2.1	12.7
INDUSTRY 2514, METAL HOUSEHOLD FURNITURE												
Total	-	**448**	**33.2**	**302.2**	**27.4**	**51.6**	**208.6**	**637.4**	**664.0**	**1 307.1**	**22.8**	**217.0**
Establishments with an average of—												
1 to 4 employees	E8	103	0.2	1.8	0.2	0.3	1.2	3.7	3.7	7.6	0.1	1.2
5 to 9 employees	E7	57	0.4	3.7	0.3	0.6	2.5	6.9	6.7	13.5	0.2	2.2
10 to 19 employees	E3	75	1.0	9.6	0.8	1.6	6.3	20.1	22.9	42.9	0.6	5.5
20 to 49 employees	E1	65	2.0	17.2	1.7	3.2	11.9	42.0	44.6	85.8	1.9	13.7
50 to 99 employees	E1	46	3.1	27.5	2.7	5.0	19.7	60.7	63.2	123.8	1.9	19.8
100 to 249 employees	-	66	11.1	96.3	9.4	17.8	68.6	201.1	235.4	434.4	7.9	71.1
250 to 499 employees	-	26	8.7	81.2	7.4	13.6	57.0	167.7	178.2	339.2	6.6	64.3
500 to 999 employees	-	10	6.6	64.8	4.9	9.5	41.2	135.3	129.4	259.9	3.7	39.1
Covered by administrative records[2]	E0	161	0.8	7.6	0.7	1.3	5.0	14.6	15.3	29.8	0.4	5.1
INDUSTRY 2515, MATTRESSES AND BEDSPRINGS												
Total	-	**962**	**27.0**	**279.8**	**20.6**	**39.3**	**175.3**	**616.6**	**788.6**	**1 398.5**	**14.5**	**155.6**
Establishments with an average of—												
1 to 4 employees	E8	335	0.6	5.9	0.5	0.8	3.7	13.6	16.3	30.0	0.2	3.3
5 to 9 employees	E4	113	0.8	7.3	0.6	1.1	4.6	18.4	23.0	41.2	0.5	4.9
10 to 19 employees	E1	159	2.3	21.4	1.7	3.2	13.3	49.4	72.4	120.8	1.3	13.1
20 to 49 employees	E1	215	6.6	63.7	4.9	9.3	38.0	152.7	206.4	356.4	4.1	38.2
50 to 99 employees	-	98	7.1	78.0	5.4	10.1	45.9	191.5	232.9	422.3	3.9	38.2
100 to 249 employees	-	29	(9.8)	(103.6)	(7.5)	(14.7)	(69.7)	(191.1)	(237.5)	(427.6)	(4.5)	(58.0)
250 to 499 employees	-	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	329	0.7	7.5	0.6	1.1	4.8	17.3	20.6	37.9	0.3	4.2
INDUSTRY 2517, WOOD TV AND RADIO CABINETS												
Total	-	**94**	**10.7**	**89.0**	**9.3**	**17.6**	**70.5**	**150.4**	**155.0**	**304.8**	**11.1**	**30.5**
Establishments with an average of—												
1 to 4 employees	E8	20	(Z)	0.3	(Z)	0.1	0.2	(S)	0.5	1.0	(Z)	0.1
5 to 9 employees	E9	8	0.1	0.4	0.1	0.1	0.3	0.7	0.8	1.5	(Z)	0.2
10 to 19 employees	E4	15	0.2	1.6	0.2	0.3	1.2	2.5	2.7	5.0	0.2	0.6
20 to 49 employees	E1	20	0.7	5.4	0.6	1.1	4.0	8.0	9.5	17.9	(5.7)	3.0
50 to 99 employees	E1	12	0.9	6.5	0.8	1.5	5.0	12.6	9.2	21.8	(D)	3.5
100 to 249 employees	-	7	0.9	6.7	0.8	1.5	4.9	7.9	12.5	19.8	(D)	2.8
250 to 499 employees	-	3	1.0	9.1	1.0	2.0	7.5	18.7	16.1	34.9	(D)	2.2
500 to 999 employees	-	7	(6.9)	(59.1)	(5.9)	(11.0)	(47.3)	(100.1)	(103.6)	(202.8)	(5.1)	(18.1)
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	32	0.2	1.7	0.2	0.4	1.4	2.5	2.9	5.4	0.1	0.6
INDUSTRY 2519, HOUSEHOLD FURNITURE, N.E.C.												
Total	-	**201**	**8.7**	**79.7**	**7.5**	**14.3**	**61.7**	**131.0**	**172.6**	**301.9**	**10.4**	**34.1**
Establishments with an average of—												
1 to 4 employees	E7	83	0.1	1.0	0.1	0.2	0.7	2.4	2.5	4.9	0.2	0.6
5 to 9 employees	E7	31	0.2	1.8	0.2	0.4	1.3	3.7	4.0	7.7	0.4	1.0
10 to 19 employees	E5	28	0.4	3.2	0.3	0.6	2.4	6.8	6.3	13.1	0.5	1.9
20 to 49 employees	-	26	0.9	7.2	0.8	1.5	4.9	14.4	14.5	28.7	0 7	3.6
50 to 99 employees	-	15	1.1	9.2	1.0	1.9	7.2	21.1	21.5	41.9	(8.6)	5.3
100 to 249 employees	-	12	2.0	16.1	1.7	3.3	11.9	37.5	36.9	73.5	(D)	10.3
250 to 499 employees	-	4	(4.0)	(41.2)	(3.4)	(6.3)	(33.2)	(45.1)	(86.8)	(132.1)	(D)	(11.5)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	98	0.4	3.4	0.4	0.7	2.4	7.0	8.4	15.4	0 6	2.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2511	**Wood household furniture:**										
	Entire industry	2 982	140.8	1 137.3	124.6	244.5	897.3	2 235.0	1 931.2	4 140.3	101.6
	Establishments with 75 percent specialization or more	2 844	127.8	1 028.8	113.5	223.2	814.2	2 040.9	1 776.2	3 786.1	95.5
25112	Wood living room, family room, and den furniture:										
	Establishments with this product class primary	239	24.7	204.7	21.4	42.2	158.2	416.2	327.9	735.3	18.8
	Establishments with 75 percent specialization or more in class	164	16.0	131.4	14.0	27.6	103.4	273.7	225.3	493.5	15.5
25113	Wood dining room and kitchen furniture, except cabinets:										
	Establishments with this product class primary	192	39.9	326.8	35.0	68.9	257.0	617.6	483.9	1 100.0	20.2
	Establishments with 75 percent specialization or more in class	100	13.9	108.0	12.5	24.1	87.2	203.6	208.9	416.2	7.1
25115	Wood bedroom furniture:										
	Establishments with this product class primary	214	49.9	404.5	44.9	89.7	326.5	802.2	730.8	1 518.6	38.0
	Establishments with 75 percent specialization or more in class	138	27.0	210.7	24.5	47.5	171.7	438.5	389.4	823.8	19.5
25116	Infants' and children's wood furniture:										
	Establishments with this product class primary	29	3.6	27.8	3.3	6.1	22.6	55.1	59.7	113.6	3.6
	Establishments with 75 percent specialization or more in class	24	2.7	19.9	2.5	4.7	16.4	38.8	42.8	80.8	(D)
25117	Wood outdoor and unpainted, unassembled furniture:										
	Establishments with this product class primary	83	5.3	40.5	4.4	8.2	28.9	93.7	106.7	195.6	4.3
	Establishments with 75 percent specialization or more in class	73	4.6	35.1	3.9	7.1	25.4	81.5	94.1	170.9	3.6
2512	**Upholstered household furniture:**										
	Entire industry	1 473	89.1	779.2	75.7	137.6	583.9	1 437.3	1 510.6	2 931.0	50.4
	Establishments with 75 percent specialization or more	1 352	77.1	671.0	65.8	119.1	505.4	1 248.1	1 308.7	2 543.2	44.8
2514	**Metal household furniture:**										
	Entire industry	448	33.2	302.2	27.4	51.6	208.6	637.4	684.0	1 307.1	22.8
	Establishments with 75 percent specialization or more	409	25.2	219.0	21.2	39.5	154.2	470.3	501.0	961.4	16.6
25141	Metal household dining and dinette furniture:										
	Establishments with this product class primary	52	9.8	90.9	8.3	16.1	64.9	185.7	207.2	389.5	6.0
	Establishments with 75 percent specialization or more in class	34	5.7	50.8	4.8	9.4	35.9	105.2	111.6	214.7	2.8
25142	Metal kitchen furniture:										
	Establishments with this product class primary	21	2.2	22.9	1.7	3.0	14.3	46.8	40.0	85.6	1.2
	Establishments with 75 percent specialization or more in class	13	1.0	12.5	0.7	1.3	6.7	24.8	16.6	41.4	(D)
25143	Metal porch, lawn, outdoor, and casual furniture:										
	Establishments with this product class primary	69	8.5	66.4	7.4	13.4	49.7	142.2	145.2	281.3	5.9
	Establishments with 75 percent specialization or more in class	56	7.0	49.2	6.1	10.9	38.1	110.3	118.4	223.0	4.9
25144	Other metal household furniture:										
	Establishments with this product class primary	71	9.4	92.3	7.3	14.0	59.6	206.6	235.6	438.5	8.0
	Establishments with 75 percent specialization or more in class	50	5.2	53.3	4.3	8.3	34.6	116.2	133.6	248.6	5.1
2515	**Mattresses and bedsprings:**										
	Entire industry	962	27.0	279.8	20.8	39.3	175.3	616.6	788.6	1 398.5	14.5
	Establishments with 75 percent specialization or more	915	23.4	245.9	17.8	33.9	152.2	560.7	710.3	1 262.1	13.4
25151	Innerspring mattresses, except crib size:										
	Establishments with this product class primary	297	15.6	173.0	11.4	22.1	104.2	370.1	472.3	839.7	7.3
	Establishments with 75 percent specialization or more in class	45	1.6	16.1	1.2	2.4	9.4	37.5	50.3	87.4	1.0
25152	Other mattresses, including crib mattresses:										
	Establishments with this product class primary	47	1.0	9.7	0.8	1.5	6.9	30.0	47.9	76.2	0.8
	Establishments with 75 percent specialization or more in class	31	0.5	5.4	0.5	0.9	4.2	19.3	33.7	51.3	(D)
25153	Bedsprings, except innerspring units:										
	Establishments with this product class primary	58	2.4	22.1	2.0	3.7	14.3	59.3	76.7	135.2	1.7
	Establishments with 75 percent specialization or more in class	30	0.9	7.3	0.8	1.6	5.3	19.8	27.7	47.0	(D)
25154	Convertible sofas:										
	Establishments with this product class primary	55	3.3	29.7	2.7	5.2	20.9	58.4	80.1	137.8	2.1
	Establishments with 75 percent specialization or more in class	27	1.3	11.5	1.0	1.9	7.9	20.8	32.8	53.4	0.4
25157	Other dual purpose sleep furniture:										
	Establishments with this product class primary	7	0.7	6.2	0.5	1.0	4.2	10.7	9.8	20.5	(D)
	Establishments with 75 percent specialization or more in class	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2517	**Wood TV and radio cabinets:**										
	Entire industry	94	10.7	89.0	9.3	17.6	70.5	150.4	155.0	304.8	11.1
	Establishments with 75 percent specialization or more	86	8.8	73.1	7.6	14.3	57.6	118.9	125.8	246.9	(D)
2519	**Household furniture, n.e.c.:**										
	Entire industry	201	8.7	79.7	7.5	14.3	61.7	131.0	172.6	301.9	10.4
	Establishments with 75 percent specialization or more	189	5.6	46.6	4.8	9.4	35.2	97.1	104.4	199.3	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. **Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967**

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2511	Wood household furniture....1977..	4,140.3	3,734.6	257.8	147.9	94	3,890.7	3,734.6	156.1	96
	1972..	2,870.0	2,582.7	168.3	119.0	94	2,716.8	2,582.7	134.1	95
	1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2512	Upholstered household furniture....1977..	2,931.0	2,614.4	263.9	52.7	91	2,735.7	2,614.4	121.3	96
	1972..	2,104.7	1,887.1	168.9	48.7	92	1,990.5	1,887.1	103.4	95
	1967..	1,266.4	1,142.1	91.9	32.4	93	1,215.5	1,142.1	73.4	94
2514	Metal household furniture....1977..	1,307.1	1,124.9	142.4	39.8	89	1,231.2	1,124.9	106.3	91
	1972..	890.4	780.0	87.2	23.2	90	859.3	780.0	79.3	91
	1967..	605.3	529.4	58.4	17.5	90	587.8	529.4	58.4	90
2515	Mattresses and bedsprings....1977..	1,398.5	1,278.0	74.4	46.1	95	1,481.5	1,278.0	203.5	86
	1972..	1,048.3	947.8	59.2	41.3	94	1,079.6	947.8	131.8	88
	1967..	745.1	648.0	66.1	31.0	91	709.6	648.0	61.6	91
2517	Wood TV and radio cabinets....1977..	304.8	280.5	22.8	1.5	92	312.8	280.5	32.3	90
	1972..	330.2	267.8	45.7	16.7	85	293.0	267.8	25.2	91
	1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2519	Household furniture, n.e.c....1977..	301.9	237.9	61.8	2.2	79	281.8	237.9	43.9	84
	1972..	172.6	139.8	26.2	6.6	84	190.3	139.8	50.5	73
	1967..	55.3	43.9	8.8	2.6	83	79.0	43.9	35.1	56

n.e.c. Not elsewhere classified. (NA) Not available.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Wood household furniture (SIC 2511)	Upholstered household furniture (SIC 2512)	Metal household furniture (SIC 2514)	Mattresses and bedsprings (SIC 2515)	Wood TV and radio cabinets (SIC 2517)	Household furniture, n.e.c. (SIC 2519)	Other industries
	Total	(X)	4,140.3	2,931.0	1,307.1	1,398.5	304.8	301.9	(X)
	Primary products	(X)	3,734.6	2,614.4	1,124.9	1,278.0	280.5	237.9	(X)
	Secondary products	(X)	257.8	263.9	142.4	74.4	22.8	61.8	(X)
	Miscellaneous receipts	(X)	147.9	52.7	39.8	46.1	1.5	2.2	(X)
2511-	Wood household furniture	3,890.7	3,734.6	66.4	16.0	(D)	12.7	(D)	51.6
25112	Wood living room, family room, and den furniture	859.8	790.1	47.2	-	(D)	(D)	.4	15.6
25113	Wood dining room and kitchen furniture, except cabinets	962.3	937.0	13.6	8.3	(D)	(D)	(D)	(D)
25115	Wood bedroom furniture	1,290.3	1,273.1	(D)	(D)	3.4	(D)	(D)	5.0
25116	Infants' and children's wood furniture	118.8	99.6	-	(D)	-	(D)	-	(D)
25117	Wood outdoor and unpainted, unassembled furniture	185.8	177.2	(D)	(D)	-	-	-	(D)
25110	Wood household furniture, n.s.k	473.7	457.6	(D)	3.7	-	(D)	-	11.1
25120	Upholstered wood household furniture	2,735.7	72.0	2,614.4	(D)	35.6	(D)	(D)	9.1
2514-	Metal household furniture	1,231.2	5.1	.8	1,124.9	15.1	-	-	85.3
25141	Metal household dining and dinette furniture	319.1	(D)	-	312.9	-	-	-	(D)
25142	Metal kitchen furniture	73.4	(D)	(D)	72.3	-	-	-	(D)
25143	Metal porch, lawn, outdoor, and casual furniture	275.9	(D)	(D)	260.1	(D)	-	-	(D)
25144	Other metal household furniture	445.5	(D)	-	371.1	(D)	-	-	60.3
25140	Metal household furniture, n.s.k	117.3	(D)	(D)	108.5	(D)	-	-	(D)
2515-	Mattresses and bedsprings	1,481.5	12.0	177.2	(D)	1,278.0	-	-	(D)
25151	Innerspring mattresses, except crib size	492.6	(D)	(D)	-	480.7	-	-	3.0
25152	Other mattresses, including crib mattresses	108.3	(D)	(D)	(D)	99.5	-	-	2.6
25153	Bedsprings, excluding innerspring units	360.6	(D)	3.4	(D)	351.1	-	-	3.0
25154	Convertible sofas	302.6	.2	158.0	-	143.5	-	-	.9
25157	Other dual purpose sleep furniture	31.8	(D)	(D)	-	22.2	-	-	(D)
25150	Mattresses and bedsprings, n.s.k	185.6	(D)	3.5	-	181.0	-	-	(D)
25170	Wood television, radio, stereo, and sewing machine cabinets	312.8	(D)	-	-	-	280.5	-	(D)
25190	Household furniture, n.e.c	281.8	2.4	(D)	(D)	-	(D)	237.9	36.7
	Other shipments by 4-digit product group:								
2293-	Paddings and upholstery filling	(X)	-	-	-	(D)	-	-	(X)
2392-	Housefurnishings, n.e.c	(X)	(D)	(D)	(D)	(D)	-	(D)	(X)
2421-	Sawmill and planing mill products	(X)	(D)	-	-	-	-	-	(X)
2426-	Hardwood dimension and flooring	(X)	7.3	4.1	-	(D)	(D)	-	(X)
2431-	Millwork	(X)	4.8	-	-	-	-	-	(X)
2434-	Wood kitchen cabinets	(X)	3.3	-	(D)	-	(D)	-	(X)
2435-	Hardwood veneer and plywood	(X)	(D)	-	-	-	(D)	-	(X)
2499-	Wood products, n.e.c	(X)	(D)	(D)	(D)	(D)	-	(D)	(X)
2521-	Wood office furniture	(X)	13.2	(D)	(D)	-	(D)	-	(X)
2522-	Metal office furniture	(X)	-	(D)	(D)	-	-	-	(X)
2531-	Public building and related furniture	(X)	(D)	(D)	(D)	-	-	-	(X)
2541-	Wood partitions and fixtures	(X)	2.6	(D)	-	(D)	(D)	-	(X)
2542-	Metal partitions and fixtures	(X)	-	(D)	(D)	-	-	-	(X)
2599-	Furniture and fixtures, n.e.c	(X)	(D)	(D)	(D)	(D)	(D)	-	(X)
3079-	Miscellaneous plastics products	(X)	(D)	-	2.2	(D)	(D)	10.5	(X)
3231-	Products of purchased glass	(X)	65.4	(D)	(D)	(D)	-	(D)	(X)
3429-	Hardware, n.e.c	(X)	(D)	-	3.8	-	-	-	(X)
3444-	Sheet metal work	(X)	(D)	-	(D)	-	-	-	(X)
3469-	Metal stampings, n.e.c	(X)	-	-	(D)	(D)	-	(D)	(X)
3499-	Fabricated metal products, n.e.c	(X)	(D)	-	(D)	-	-	-	(X)
3631-	Household cooking equipment	(X)	(D)	-	(D)	-	-	-	(X)
3634-	Electric housewares and fans	(X)	-	(D)	(D)	-	-	(D)	(X)
3645-	Residential lighting fixtures	(X)	(D)	(D)	(D)	-	-	-	(X)
3677-	Electronic coils and transformers	(X)	-	-	-	-	-	(D)	(X)
3679-	Electronic components, n.e.c	(X)	-	-	-	-	-	(D)	(X)
3714-	Motor vehicle parts and accessories	(X)	-	-	-	-	-	(D)	(X)
3841-	Surgical and medical instruments	(X)	(D)	-	-	-	-	-	(X)
3944-	Games, toys, and children's vehicles	(X)	(D)	-	(D)	-	-	(D)	(X)
	Miscellaneous receipts:								
93000 00	Contract work	(X)	6.9	2.9	3.2	(D)	(D)	(D)	(X)
95120 45	Receipts for renovating and repairing mattresses	(X)	-	-	-	.7	-	-	(X)
99980 13	Sales of scrap and refuse	(X)	1.1	(Z)	1.1	(D)	(D)	.2	(X)
99980 63	Receipts for repair, renovating, refurnishing or reupholstering furniture	(X)	(D)	3.2	-	(D)	-	-	(X)
99980 98	Other miscellaneous receipts, including receipts for repair work, etc	(X)	1.6	1.5	.8	.3	(D)	(D)	(X)
99980 00	Miscellaneous receipts, n.s.k	(X)	(D)	.1	.3	(D)	-	-	(X)
99989 00	Resales	(X)	137.9	45.1	34.4	43.8	(D)	(D)	(X)

See footnotes at end of table.

Table 5c. **Industry-Product Analysis—Shipments by Product Class and Industry: 1977**—Con.

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Industry and miscellaneous receipts	Other industries	1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:			Other industries with over $5 million shipments of primary products--Con.	
2511-	2499 Wood products, n.e.c.	9.4	2514-	3634 Electric housewares and fans	(D)
	3944 Games, toys, and children's vehicles	(D)		3944 Games, toys, and children's vehicles	9.1
2514-	2531 Public building and related furniture	(D)	2517-	2521 Wood office furniture	(D)
	3429 Hardware, n.e.c.	10.8		3651 Radio and TV receiving sets	(D)
	3563 Air and gas compressors	(D)	2519-	3079 Miscellaneous plastic products	26.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972**

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)
	WOOD HOUSEHOLD FURNITURE						
2511- --	Total	.....	(NA)	(X)	3,890.7	(X)	2,716.8
25112 --	Wood living room, library, family room, and den furniture, except sewing machine cabinets	.....	(NA)	(X)	859.8	(X)	614.4
25112 19	Cabinets, including record, music, etc., except sewing machine, radio, phono, and TV cabinets	.....	35	(X)	61.6	(X)	28.8
25112 33	Chairs, except dining room chairs	Thousands	33	*2,019.8	48.1	(S)	38.2
25112 35	Rockers	↑	23	**494.7	23.4	293	6.9
25112 41	Tables, all types, except card and telephone tables	↓	155	9,844.0	441.4	13,452	388.3
25112 51	Desks	Thousands	53	*535.8	58.0	502	40.3
25112 71	Credenzas, bookcases, and bookshelves	.....	64	(X)	77.4	(X)	42.5
25112 98	Other nonupholstered living room furniture (settees, love seats, benches, secretaries, breakfronts, bars, cellarets, magazine racks, smoking stands, ornamental screens, whatnots, hanging shelves, shelves, telephone tables and chairs, piano stools, benches, card tables and chairs, etc.)	.....	65	(X)	90.7	(X)	56.5
25112 00	Wood living room, library, family room, and den furniture, except sewing machine cabinets, n.s.k	.....	(NA)	(X)	59.2	(X)	12.9
25113 --	Wood dining room and kitchen furniture, except cabinets	.....	(NA)	(X)	962.3	(X)	603.6
25113 11	Tables, 30 x 40 inches and greater, dining room	Thousands	133	*1,673.8	224.4	1,894	136.4
25113 31	Chairs, dining room	↑	140	**10,526.9	375.6	11,392	251.2
25113 51	Buffets and servers, dining room	↓	86	**795.9	132.5	648	74.1
25113 71	China and corner cabinets, dining room	Thousands	71	*588.7	128.0	634	83.9
25113 98	Other dining and kitchen furniture, including breakfast sets, junior dining room furniture, chairs, stools, and tables not sold as a set	.....	45	(X)	45.2	(X)	44.1
25113 00	Wood dining room and kitchen furniture, except cabinets, n.s.k	.....	(NA)	(X)	56.6	(X)	13.9
25115 --	Wood bedroom furniture	.....	(NA)	(X)	1,290.3	(X)	1,029.2
25115 11	Beds, excluding headboards, headboard beds, bunk beds, cribs, cradles, hollywood beds, and youth beds	Thousands	74	*1,626.4	110.3	1,638	62.2
25115 13	Headboards and headboard beds, including padded	↑	90	*3,553.9	168.8	4,018	137.0
25115 15	Bunk beds, excluding mattresses and detachable springs	↓	37	*446.1	30.4	936	33.6
25115 21	Dressers, vanities, and dressing tables	↑	113	*3,075.8	343.9	4,147	328.1
25115 33	Wardrobes, chifforobes, armoires, wardrobe-type cabinets	↓	43	**204.7	44.4	352	49.7
25115 35	Chests of drawers	↑	98	*2,722.3	226.2	3,788	226.5
25115 41	Cedar chests	↓	10	256.5	26.4	(D)	(D)
25115 61	Night tables and stands	Thousands	94	*2,899.0	133.5	3,763	118.2
25115 98	Other nonupholstered bedroom furniture, including commodes, bed rails, chairs, rockers, benches, valet stands, etc	.....	47	(X)	123.6	(X)	40.8
25115 00	Wood bedroom furniture, n.s.k	.....	(NA)	(X)	82.8	(X)	(D)
25116 --	Infants' and children's wood furniture	.....	(NA)	(X)	118.8	(X)	82.5
25116 11	Cribs, including springs sold as part of the crib	Thousands	11	(S)	47.7	1,174	28.8
25116 42	Play yards and play pens	Thousands	3	**107.3	1.8	847	5.8
25116 98	Other infants' and children's furniture (chairs, tables, wardrobes, cradles, youth beds, chests of drawers, baby baths, nursery seats and chairs, high chairs, and combination feeding chair-tables, etc.)	.....	22	(X)	57.5	(X)	45.6
25116 00	Infants' and children's wood furniture, n.s.k	.....	(NA)	(X)	11.8	(X)	2.3
25117 --	Wood outdoor furniture, unpainted wood furniture, and unassembled and knock-down wood furniture	.....	(NA)	(X)	185.8	(X)	107.9
	Porch, lawn, beach, and similar wood furniture:						
25117 21	Chairs, rockers, benches, and chaise lounges, including steamer and deck chairs	Thousands	16	**2,468.7	53.2	2,142	34.2
25117 29	Other wood porch, lawn, beach, and similar furniture, including gliders, swings, folding cots, tables, and picnic table sets	.....	18	(X)	24.3	(X)	26.1
	Unpainted wood furniture (furniture-in-the-white):						
25117 45	Chests of drawers	Thousands	7	(S)	7.5	670	11.5
25117 49	Other furniture in-the-white, unpainted (bookcases, chairs, tables, beds, vanities, dressing tables, desks, corner cabinets, folding screens, hanging shelves, wardrobes, etc.)	.....	23	(X)	42.9	(X)	16.3
25117 61	Unassembled or knock-down wood household furniture, unpainted or finished, sold in kits	.....	24	(X)	46.7	(X)	16.2
25117 00	Wood outdoor furniture, unpainted wood furniture, and unassembled and knock-down wood furniture, n.s.k	.....	(NA)	(X)	11.2	(X)	3.6
25110 00	Wood household furniture, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	286.1	(X)	205.2
25110 02	Wood household furniture, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	187.6	(X)	74.0

See footnotes at end of table.

Table 6a. **Products and Product Classes—Quantity and Value of Shipments by All Producers: 1977 and 1972**—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)
	UPHOLSTERED HOUSEHOLD FURNITURE						
2512- --	Total	.....	(NA)	(X)	2,735.7	(X)	1,990.5
25120 --	Upholstered wood household furniture:						
25120 12	Sofa, davenports (excluding dual-purpose), settees, and love seats, excluding chairs sold as part of suites and sectional sofa pieces	1,000 units..	492	6,729.1	1,194.2	6,752	844.0
25120 32	Chairs, except reclining		372	5,077.8	469.4	7,721	478.6
25120 41	Sectional sofa pieces, including pieces seating one person		120	*801.4	106.0	[3]464	62.6
25120 45	Rockers, including swivel rockers		136	*1,438.0	120.6	1,811	102.8
25120 54	Reclining chairs, all types	1,000 units..	48	3,504.8	352.9	[3]3,288	248.5
25120 98	Other upholstered wood household furniture (ottomans, hassocks, bedroom chairs, benches, chaise lounges, etc.)	.....	102	(X)	99.4	(X)	62.6
25120 00	Upholstered household furniture, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	289.2	(X)	162.3
25120 02	Upholstered household furniture, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	104.0	(X)	29.1
	METAL HOUSEHOLD FURNITURE						
2514- --	Total	.....	(NA)	(X)	1,231.2	(X)	859.3
25141 --	Metal household dining, dinette, and breakfast furniture	.....	(NA)	(X)	319.1	(X)	245.6
	Tubular metal, including chairs whether padded or plain:						
25141 11	Sets (tables and chairs)	Thousands.....	40	2,260.9	246.1	2,606	202.8
25141 15	Tables (not sold with a set)		12	*675.3	16.9	(S)	17.1
25141 17	Chairs (not sold with a set)	Thousands.....	16	**923.7	13.4	1,518	19.0
25141 98	Other metal dining, dinette, and breakfast furniture	.....	14	(X)	35.7	(X)	5.5
25141 00	Metal household dining, dinette, and breakfast furniture, n.s.k	.....	(NA)	(X)	7.0	(X)	1.2
25142 --	Metal kitchen furniture	.....	(NA)	(X)	73.4	(X)	71.4
	Kitchen furniture, excluding breakfast furniture reported as "dining, dinette, and breakfast furniture":						
25142 11	Cabinets, such as base, top, and base wall, utility, etc	.....	17	(X)	49.6	(X)	40.4
25142 51	Stools, padded and plain	Thousands.....	11	1,142.5	17.2	2,377	25.3
25142 71	Tables, including hostess carts	Thousands.....	4	307.1	5.5	**339	4.0
25142 00	Metal kitchen furniture, n.s.k	.....	(NA)	(X)	1.1	(X)	1.7
25143 --	Metal porch, lawn, outdoor, and casual furniture	.....	(NA)	(X)	275.9	(X)	177.1
	Tubular aluminum:						
25143 12	Chairs, rockers, benches, chaise lounges, and settees	Thousands.....	21	**11,304.0	122.5	21,941	101.0
25143 14	Other tubular aluminum porch, lawn, and outdoor furniture, including gliders, swings, and hammocks	.....	11	(X)	29.2	(X)	9.7
	Cast and wrought iron:						
25143 22	Chairs, rockers, benches, chaise lounges, and settees	Thousands.....	17	1,221.2	44.7	1,354	22.7
25143 24	Other cast and wrought iron porch, lawn, and outdoor furniture, including gliders, swings, and hammocks	.....	11	(X)	15.5	(X)	10.5
25143 98	Other metal porch, lawn, outdoor, and casual furniture, including picnic tables	.....	13	(X)	37.4	(X)	19.5
25143 00	Metal porch, lawn, outdoor, and casual furniture, n.s.k	.....	(NA)	(X)	26.6	(X)	13.7
25144 --	Other metal household furniture	.....	(NA)	(X)	445.5	(X)	311.4
25144 33	Folding cots, rollable cots, army cots, and other metal beds	Thousands.....	14	**687.7	15.6	1,176	18.3
25144 37	Metal bed frames (complete metal bed frames sold separately, with or without a headboard)	Thousands.....	32	**6,797.4	77.8	9,615	52.8
25144 55	Upholstered metal household furniture	.....	7	(X)	12.4	(X)	3.6
25144 71	Card tables and chairs	.....	2	(X)	(D)	(X)	23.9
25144 75	Medicine cabinets, including "wall type" and "insert type"	Thousands.....	13	**3,804.4	72.1	3,586	57.4
25144 91	Metal radio, phonograph, TV, and hi-fi cabinets		5	*295.4	5.1	(D)	(D)
25144 92	Infants' high chairs		9	**985.2	12.2	1,244	11.4
25144 93	Infants' car seats		7	**1,051.3	19.7	1,464	12.8
25144 94	Other infants' and children's metal furniture, including chairs, tables, playpens, play yards, and portable cribs	Thousands.....	11	**3,066.5	47.6	2,492	24.5
25144 95	Metal folding tray tables	.....	3	(X)	(D)	(D)	(D)
25144 98	Other metal household furniture	.....	45	(X)	108.9	(X)	65.6
25144 00	Other metal household furniture, n.s.k	.....	(NA)	(X)	32.5	(X)	10.0
25140 00	Metal household furniture, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	87.5	(X)	38.7
25140 02	Metal household furniture, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	29.8	(X)	15.1

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)
	MATTRESSES AND BEDSPRINGS[4]						
2515- --	Total	.....	(NA)	(X)	1,481.5	(X)	1,079.6
25151 --	Innerspring mattresses, other than crib size:						
25151 15	Innerspring mattresses, other than crib size, including those with polyurethane or rubber topper pads and those sold as part of hollywood beds	Thousands.....	254	*9,638.1	492.6	10,520.0	336.6
25152 --	Other mattresses, including crib size	.....	(NA)	(X)	108.3	(X)	78.4
25152 11	Crib mattresses, all types, including those made with innersprings, polyurethane, latex foam, hair, cotton felt, etc	Thousands.....	14	*1,356.2	17.9	1,735.0	16.4
25152 31	Latex foam core mattresses, other than crib size		17	*184.5	5.8	486.0	24.2
25152 37	Urethane foam core mattresses, other than crib size		48	1,542.2	59.7	1,475.0	24.0
25152 45	Other mattresses, including those made of cotton felt, hair, etc., other than crib size	Thousands.....	10	(S)	6.9	675.0	11.7
25152 00	Other mattresses, n.s.k	.....	(NA)	(X)	18.0	(X)	2.1
25153 --	Bedsprings	.....	(NA)	(X)	360.6	(X)	277.8
25153 11	Box springs, including those sold with or without legs as part of hollywood beds	Thousands.....	149	6,566.0	282.1	9,022.0	263.2
25153 79	Other bedsprings, including coil and flat, foam foundations, and hospital bedsprings	Thousands.....	50	*1,767.9	54.7	754.0	9.7
25153 00	Bedsprings, n.s.k	.....	(NA)	(X)	23.8	(X)	4.9
25154 --	Convertible sofas	.....	(NA)	(X)	302.6	(X)	208.6
	Convertible sofas (hidden separate mattress which forms a sleeping surface and folds up beneath seat):						
25154 21	From purchased mattresses, including interplant transfers	Thousands.....	154	991.2	211.8	773.0	122.0
25154 31	From mattresses produced at same establishment	Thousands.....	36	392.7	76.8	461.0	85.8
25154 00	Convertible sofas, n.s.k	.....	(NA)	(X)	14.0	(X)	.8
25157 --	All other dual purpose sleep furniture	.....	(NA)	(X)	31.8	(X)	56.4
25157 11	Jackknife sofa beds and chair beds (back lowers to seat level by means of jackknife hinge and forms half the sleeping surface)	Thousands.....	31	**270.2	20.7	723.0	33.8
25157 15	Studio couches	Thousands.....	10	(S)	10.8	348.0	22.6
25157 00	All other dual purpose sleep furniture, n.s.k	.....	(NA)	(X)	.3	(X)	-
25150 00	Mattresses and bedsprings, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	147.7	(X)	78.3
25150 02	Mattresses and bedsprings, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	37.9	(X)	43.5
	WOOD TV AND RADIO CABINETS						
2517- --	Total	.....	(NA)	(X)	312.8	(X)	293.0
25170 --	Wood television, radio, stereo, and sewing machine cabinets:						
25170 12	Console phono cabinets	Thousands.....	3				
25170 14	Other audio cabinets, including radio, phonograph, and hi-fi cabinets		27	*1,450.5	82.3	3,015	108.2
25170 15	Television cabinets and combinations, TV, hi-fi, and radio		23	4,512.9	171.1	4,008	147.4
25170 21	Sewing machine cabinets	Thousands.....	10	*651.5	41.7	1,108	22.2
25170 00	Wood television, radio, stereo, and sewing machine cabinets, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	12.3	(X)	2.8
25170 02	Wood television, radio, stereo, and sewing machine cabinets, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	5.4	(X)	2.4
	HOUSEHOLD FURNITURE, N.E.C.						
2519- --	Total	.....	(NA)	(X)	281.8	(X)	190.3
25190 --	Household furniture, except wood or metal:						
25190 11	Plastics and fibrous glass cabinets, including radio, phonograph, TV, Hi-Fi, and combinations thereof	Thousands.....	23	(S)	85.1	14,323.4	59.7
25190 32	Reed and rattan furniture, including willow, wicker, and cane	.....	14	(X)	42.4	(X)	21.5

See footnotes at end of table.

Table 6a. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)
	HOUSEHOLD FURNITURE, N.E.C.--Con.						
	HOUSEHOLD FURNITURE, except wood or metal--Con.						
25190 41	Other plastics and fibrous glass household furniture, except cabinets		45	(X)	87.3	(X)	80.8
25190 98	Other household furniture, except wood, metal, plastics, or fibrous glass, including corrugated furniture		13	(X)	35.5	(X)	9.2
25190 00	Household furniture, n.e.c., n.s.k., typically for establishments with 10 employees or more (see note)		(NA)	(X)	16.1	(X)	14.7
25190 02	Household furniture, n.e.c., n.s.k., typically for establishments with less than 10 employees (see Note)		(NA)	(X)	15.4	(X)	4.4

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsehere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figures: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent of more is estimated, figure is replaced by (S).

[3]10 to 30 percent of quantity was estimated.

[4]Estimates of monthly shipments of mattresses and bedsprings have been published since 1957 in Current Industrial Reports M25E, Mattresses, Foundations, and Sleep Furniture.

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
25112, WOOD LIVING ROOM, FAMILY ROOM, AND DEN FURNITURE		
United States	859.8	614.4
New England Division:		
New Hampshire	7.9	4.6
Massachusetts	29.8	15.3
Connecticut	2.9	3.0
Middle Atlantic Division:		
New York	29.0	20.1
New Jersey	3.7	BB
Pennsylvania	16.7	EE
East North Central Division:		
Ohio	44.4	30.6
Indiana	53.2	37.4
Illinois	11.5	20.6
Michigan	46.1	35.6
Wisconsin	21.5	7.4
South Atlantic Division:		
Virginia	95.3	68.2
North Carolina	199.4	106.4
South Carolina	4.6	10.2
Georgia	27.5	26.3
Florida	3.2	BB
East South Central Division:		
Kentucky	4.8	3.6
Tennessee	29.7	15.5
Alabama	30.7	13.7
Mississippi	11.0	7.5
West South Central Division:		
Texas	18.0	7.4
Pacific Division:		
California	64.1	71.2
25113, WOOD DINING ROOM AND KITCHEN FURNITURE, EXCEPT CABINETS		
United States	962.3	603.6
New England Division:		
Maine	5.2	BB
New Hampshire	4.4	6.1
Vermont	20.5	15.9
Massachusetts	33.9	27.7
Middle Atlantic Division:		
New York	30.3	17.0
Pennsylvania	19.0	EE
East North Central Division:		
Indiana	44.2	36.2
Illinois	10.9	9.1
Michigan	13.5	14.7
South Atlantic Division:		
Virginia	121.7	86.2
North Carolina	430.5	227.1
Georgia	12.2	14.9
Florida	2.7	2.1
East South Central Division:		
Tennessee	27.0	24.1
Alabama	6.1	BB
Mississippi	34.9	14.7
West South Central Division:		
Arkansas	16.6	EE
Texas	13.4	12.2
Pacific Division:		
California	68.8	25.4
25115, WOOD BEDROOM FURNITURE		
United States	1,290.3	1,029.2
New England Division:		
New Hampshire	3.0	4.7
Massachusetts	3.6	4.6
Middle Atlantic Division:		
New York	19.7	22.9
New Jersey	4.3	4.8
Pennsylvania	29.7	33.4
East North Central Division:		
Indiana	18.9	26.6
Illinois	12.7	5.5
Michigan	5.5	8.8
South Atlantic Division:		
Maryland	2.8	AA
Virginia	244.3	256.5
North Carolina	409.7	314.1
South Carolina	35.9	26.4
Georgia	25.8	EE
Florida	26.6	15.1
East South Central Division:		
Kentucky	13.9	BB
Tennessee	99.0	67.4
Alabama	34.6	21.6
Mississippi	40.2	FF
West South Central Division:		
Arkansas	58.8	55.3
Louisiana	2.6	BB
Texas	37.2	19.3
Pacific Division:		
Oregon	12.8	15.6
California	91.0	37.3
25116, INFANTS' AND CHILDREN'S WOOD FURNITURE		
United States	118.8	82.5
New England Division:		
Massachusetts	6.0	CC
Middle Atlantic Division:		
Pennsylvania	5.2	5.6
East North Central Division:		
Wisconsin	20.6	19.3
25117, WOOD OUTDOOR AND UNPAINTED, UNASSEMBLED FURNITURE		
United States	185.8	107.9
New England Division:		
Massachusetts	5.0	BB
Middle Atlantic Division:		
New York	7.1	10.8
New Jersey	10.8	BB
Pennsylvania	16.2	EE
East North Central Division:		
Indiana	12.1	4.3
Michigan	7.9	(NA)
Wisconsin	4.8	BB
South Atlantic Division:		
North Carolina	8.3	2.1
Georgia	8.2	BB
Pacific Division:		
Washington	2.9	(NA)
California	48.3	EE

See footnotes at end of table.

Table 6b. **Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972** – Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
25141, METAL HOUSEHOLD DINING AND DINETTE FURNITURE		
United States	319.1	245.6
Middle Atlantic Division:		
New York	9.4	CC
Pennsylvania	26.5	15.9
East North Central Division:		
Illinois	51.7	FF
Michigan	9.0	4.1
South Atlantic Division:		
North Carolina	31.4	EE
Pacific Division:		
California	72.4	54.2
25142, METAL KITCHEN FURNITURE		
United States	73.4	71.4
Middle Atlantic Division:		
New York	3.1	5.1
East North Central Division:		
Illinois	28.6	20.0
25143, METAL PORCH, LAWN, OUTDOOR, AND CASUAL FURNITURE		
United States	275.9	177.1
Middle Atlantic Division:		
New York	15.2	14.0
Pennsylvania	7.9	EE
South Atlantic Division:		
North Carolina	20.1	12.1
Florida	24.2	EE
East South Central Division:		
Alabama	25.2	EE
West South Central Division:		
Texas	24.5	EE
Pacific Division:		
California	41.0	EE
25144, OTHER METAL HOUSEHOLD FURNITURE		
United States	445.5	311.4
New England Division:		
Massachusetts	10.8	EE
Middle Atlantic Division:		
New York	15.2	12.8
New Jersey	11.0	8.1
Pennsylvania	35.0	21.1
East North Central Division:		
Ohio	51.7	FF
Indiana	38.4	21.9
Illinois	78.8	51.9
West North Central Division:		
Missouri	10.0	EE
South Atlantic Division:		
North Carolina	22.0	18.3
Georgia	3.0	BB
East South Central Division:		
Tennessee	24.2	21.2
Alabama	5.6	AA
West South Central Division:		
Texas	8.5	CC
Pacific Division:		
California	72.4	FF
25151, INNERSPRING MATTRESSES, EXCEPT CRIB SIZE		
United States	492.6	336.6
New England Division:		
Massachusetts	10.4	11.5
Connecticut	11.4	8.3
Middle Atlantic Division:		
New York	12.5	19.9
New Jersey	35.5	22.1
Pennsylvania	19.2	16.5
East North Central Division:		
Ohio	41.1	28.8
Indiana	12.0	14.7
Illinois	21.8	14.6
Michigan	12.6	7.4
West North Central Division:		
Minnesota	8.9	BB
South Atlantic Division:		
Maryland	8.9	3.6
Virginia	7.9	3.7
West Virginia	4.0	2.2
North Carolina	13.1	11.7
Georgia	20.0	13.0
Florida	22.8	9.4
East South Central Division:		
Kentucky	5.5	3.7
Tennessee	16.8	14.8
Alabama	8.6	5.6
Mississippi	3.1	1.8
West South Central Division:		
Louisiana	2.5	1.2
Oklahoma	9.9	3.8
Texas	47.3	24.6
Mountain Division:		
Colorado	8.3	7.1
Arizona	3.2	3.7
Pacific Division:		
Washington	10.5	3.7
Oregon	3.9	2.6
California	62.8	41.9
25152, OTHER MATTRESSES, INCLUDING CRIB MATTRESSES		
United States	108.3	78.4
New England Division:		
Massachusetts	2.5	2.5
Middle Atlantic Division:		
New York	4.6	6.6
New Jersey	2.3	2.1
East North Central Division:		
Ohio	5.3	5.3
Illinois	11.0	6.2
Michigan	2.4	AA
West North Central Division:		
Missouri	3.7	1.3
South Atlantic Division:		
Maryland	2.3	AA
Georgia	8.9	5.6
Florida	9.0	5.0
West South Central Division:		
Texas	7.8	4.1
Pacific Division:		
Washington	4.6	2.0
California	15.9	7.2

See footnotes at end of table.

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972—Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
25153, BEDSPRINGS, EXCLUDING INNERSPRING UNITS		
United States	360.6	277.8
New England Division:		
Massachusetts	9.5	7.6
Connecticut	2.6	6.7
Middle Atlantic Division:		
New York	9.2	14.0
New Jersey	18.4	18.2
Pennsylvania	16.3	13.5
East North Central Division:		
Ohio	39.3	24.2
Indiana	7.2	11.2
Illinois	17.6	12.2
Michigan	7.9	CC
Wisconsin	6.2	(NA)
West North Central Division:		
Minnesota	5.7	4.4
Missouri	6.8	6.1
Kansas	3.9	CC
South Atlantic Division:		
Maryland	6.3	3.2
Virginia	7.0	3.9
West Virginia	4.3	1.8
North Carolina	10.6	10.2
South Carolina	2.4	3.4
Georgia	21.1	14.8
Florida	14.2	12.8
East South Central Division:		
Kentucky	5.0	3.3
Tennessee	15.7	8.7
Alabama	3.0	3.4
Mississippi	3.1	1.7
West South Central Division:		
Louisiana	2.1	1.2
Oklahoma	7.6	2.9
Texas	31.3	21.2
Mountain Division:		
Colorado	4.8	3.6
Arizona	2.1	1.6
Pacific Division:		
Washington	9.5	3.5
California	42.9	35.0
25154, CONVERTIBLE SOFAS		
United States	302.6	208.6
Middle Atlantic Division:		
New York	6.0	CC
New Jersey	5.1	21.0
Pennsylvania	12.0	8.3
East North Central Division:		
Ohio	17.8	6.2
Indiana	10.2	8.4
Illinois	13.4	BB
West North Central Division:		
Iowa	10.1	BB
Missouri	11.6	7.6
Nebraska	2.7	AA
South Atlantic Division:		
Maryland	4.2	3.3
Virginia	3.1	BB
North Carolina	39.7	10.5
Georgia	6.2	8.1
Florida	9.8	6.3
East South Central Division:		
Tennessee	14.8	11.4
Mississippi	23.3	CC
West South Central Division:		
Arkansas	3.3	3.9
Texas	25.8	15.4
Mountain Division:		
Colorado	3.0	1.2
Pacific Division:		
Oregon	5.0	BB
California	39.3	41.3
25157, OTHER DUAL PURPOSE SLEEP FURNITURE		
United States	31.8	(NA)
Pacific Division:		
California	12.2	(NA)

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 and over.
(NA) Not available.

Table 6c. Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2511-	Wood household furniture	3,890.7	3,270.2	2,746.0	3,072.8	3,071.0	2,716.8	1,791.5	1,350.8
25112	Wood living room, family room, and den furniture	859.8	788.1	635.9	702.5	736.9	614.4	[2]395.4	[2]315.4
25113	Wood dining room and kitchen furniture, except cabinets	962.3	873.0	739.4	796.4	731.8	603.6	375.7	272.3
25115	Wood bedroom furniture	1,290.3	1,182.5	958.0	1,084.5	1,114.8	1,029.2	694.7	578.2
25116	Infants' and children's wood furniture	118.8	129.0	115.3	104.1	97.5	82.5	44.5	43.5
25117	Wood outdoor and unpainted, unassembled furniture	185.8	139.5	111.8	124.8	100.7	107.9	63.8	51.2
25110	Wood household furniture, n.s.k	473.7	(158.1)	(185.6)	260.5	(289.3)	279.2	217.4	90.2
25120	Upholstered wood household furniture	2,735.7	2,473.4	2,126.3	2,237.3	2,217.1	1,990.5	[3]1,163.1	[3]905.6
2514-	Metal household furniture	1,231.2	991.6	895.3	934.0	970.7	859.3	587.8	507.8
25141	Metal household dining and dinette furniture	319.1	271.5	260.1	270.4	285.5	245.6	163.1	141.2
25142	Metal kitchen furniture	73.4	(75.8)	(66.4)	(68.3)	88.2	71.4	56.5	62.8
25143	Metal porch, lawn, outdoor, and casual furniture	275.9	268.2	220.5	230.4	197.2	177.1	109.7	101.3
25144	Other metal household furniture	445.5	355.6	330.5	330.0	342.4	311.4	208.0	184.0
25140	Metal household furniture, n.s.k	117.3	(20.5)	(17.8)	(34.9)	57.4	53.8	50.5	18.5
2515-	Matresses and bedsprings	1,481.5	1,254.7	1,120.7	1,161.0	1,202.1	1,079.6	709.6	608.7
25151	Innerspring mattresses, except crib size	492.6	515.6	457.7	443.9	410.8	336.6	240.2	234.1
25152	Other mattresses, including crib mattresses	108.3	82.5	[r]77.0	94.0	92.6	78.4	57.6	50.2
25153	Bedsprings, excluding innerspring units	360.6	344.6	321.5	302.8	328.8	277.8	177.9	157.3
25154	Convertible sofas	302.6	222.9	191.0	203.7	217.6	208.6	103.1	82.3
25157	Other dual purpose sleep furniture	31.8	(S)	(S)	(S)	60.2	56.4	49.9	56.4
25150	Mattresses and bedsprings, n.s.k	185.6	(58.1)	(46.1)	(81.6)	92.1	121.8	80.9	28.4
25170	Wood television, radio, stereo, and sewing machine cabinets	312.8	314.6	260.7	312.1	275.4	293.0	(NA)	(NA)
25190	Household furniture, n.e.c	281.8	236.2	212.7	239.6	249.8	190.3	79.0	46.9

(NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. [r]Revised. (S) Withheld because estimate did not not meet publication standards.

[1]Figures are estimates derived form a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with these estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates with are of acceptable reliability.

[2]Individual product codes included in this product class for 1967 and 1963 differ from posterior years definition. Products shifting into or out of this product class represent approximately 11 percent of total 1967 shipments at U.S. levels.

[3]This product class for 1967 and 1963 differs from posterior years definition. Products shifting into or out of this product class represent approximately 4 percent of total 1967 shipments at U.S. levels.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2511, WOOD HOUSEHOLD FURNITURE					
	Materials, parts, containers, and supplies	.....	(X)	1,740.6	(X)	1,218.4
242111	Hardwood lumber, rough and dressed	Million bd. ft.	*1,069.7	288.8	1,010.5	210.6
242123	Softwood lumber, rough and dressed	↕	**423.5	102.0	359.1	54.3
242620	Hardwood dimension and parts, excluding furniture parts	Million bd. ft.	(S)	100.0	281.3	112.1
243601	Softwood plywood	Million sq. ft. (3/8" basis).	**42.0	10.6	87.7	11.9
	Hardwood plywood other than container type:					
243511	Veneer core	Million sq. ft. (surf. meas.).	**246.9	29.6	327.3	28.7
243513	Lumber core, including particleboard core	↕	**106.2	24.2	273.4	24.7
243540	Hardwood veneer	Million sq. ft. (surf. meas.).	(S)	60.6	814.9	47.0
249200	Particleboard (wood)	Million sq. ft. (3/4" basis).	(S)	67.1	432.0	66.3
249970	Medium density fiberboard (MDF)	Million sq. ft. (3/4" basis).	(S)	31.6	(X)	(2)
249960	Hardboard (wood fiberboard)	Million sq. ft. (1/8" basis).	(S)	36.2	432.2	29.3
242661	Furniture frames, wood	.....	(X)	48.3	(X)	9.7
285101	Paints, varnishes, lacquers, shellacs, japans, and enamels	Million gal....	**26.5	91.3	26.6	58.7
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	Million lb.....	(S)	3.2	(X)	(2)
307931	Plastics laminated sheets	.....	(X)	20.7	(X)	30.2
307905	Plastics products consumed in the form of rods, tubes, and other shapes, excluding plastics furniture parts and components, and plastics laminated sheets	.....	(X)	2.8	(X)	(2)
321101	Flat glass (plate, float, and sheet)	Million sq. ft.	(S)	17.8	39.6	9.5
323150	Mirrors, framed and unframed	Million sq. ft.	(S)	19.9	35.9	18.7
342901	Furniture and builders' hardware, including cabinet hardware, casters, glides, handles, hinges, locks, etc	.....	(X)	97.0	(X)	83.0
307951	Plastics furniture parts and components	.....	(X)	33.4	(X)	59.2
970099	All other materials and components, parts, containers, and supplies	.....	(X)	404.0	(X)	2219.2
971000	All other materials, parts, containers, and supplies, n.s.k.[3]	.....	(X)	251.5	(X)	145.3
	INDUSTRY 2512, UPHOLSTERED HOUSEHOLD FURNITURE					
	Materials, parts, containers, and supplies	.....	(X)	1,450.2	(X)	972.4
242111	Hardwood lumber, rough and dressed	Million bd. ft.	**297.9	63.9	4380.0	61.2
242123	Softwood lumber, rough and dressed	↕	**107.8	23.2	477.0	10.4
242620	Hardwood dimension and parts, excluding furniture frames	Million bd. ft.	(S)	18.9	80.8	20.1
242661	Furniture frames, wood	.....	(X)	130.0	(X)	96.5
	Foam cores for mattresses, excluding topper pads:					
306933	Rubber	Thousands.....	(S)	3.4	(S)	2.4
307922	Urethane	Thousands.....	(S)	19.3	(S)	11.1
307921	Formed and slab stock for pillows, cushion seatings, etc. (urethane)	Million lb.....	(S)	138.5	155.4	94.1
229308	Paddings, battings, and fillings, except rubber and plastics foam	↕	(S)	31.2	(S)	23.0
207431	Cotton linters (net weight)	↕	(S)	10.8	104.5	15.0
999806	Cotton waste	Million lb.....	(S)	1.5	(X)	(5)
229508	Coated or laminated fabric for upholstery, including vinyl coated	Mil. lin. yd...	(S)	57.3	425.6	40.0
	Woven upholstery fabrics, excluding ticking and muslin:					
221161	Cotton	↕	(S)	92.6	(S)	67.2
222103	Other (rayon, nylon, polyester, etc.)	Mil. lin. yd...	(S)	311.2	(S)	219.5
349538	Springs, innerspring units, and box spring constructions	1,000 s. tons..	(S)	40.5	76.8	39.9
349535	Constructions (mechanisms) for dual-purpose sleep furniture	.....	(X)	32.5	(X)	11.5
285101	Paints, varnishes, lacquers, shellacs, japans, and enamels	Million gal....	2.3	7.3	2.2	5.4
342901	Furniture and builders' hardware, including cabinet hardware, casters, glides, handles, hinges, locks, etc	.....	(X)	23.7	(X)	28.6
307931	Plastics laminated sheets, including decorative sheets	.....	(X)	1.9	(X)	4.7
307906	Plastics products consumed in the form of sheets, rods, tubes, and other shapes, except laminated sheets	.....	(X)	1.7	(X)	(5)
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	Million lb.....	(S)	.2	(X)	(5)
307951	Plastics furniture parts and components	.....	(X)	2.2	(X)	6.3
970099	All other materials and components, parts, containers, and supplies	.....	(X)	209.8	(X)	5108.2
971000	Materials, parts, containers, and supplies, n.s.k.[3]	.....	(X)	228.6	(X)	107.3
	INDUSTRY 2514, METAL HOUSEHOLD FURNITURE					
	Materials, parts, containers, and supplies	.....	(X)	633.8	(X)	424.7
	Mill shapes and forms, except castings:					
	Carbon steel, including wrought iron:					
331012	Sheet and strip	1,000 s. tons..	*219.1	80.6	319.8	55.1
331019	All other carbon steel mill shapes and forms, including tubing	1,000 s. tons..	211.4	73.4	157.3	37.5

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972** – Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2514, METAL HOUSEHOLD FURNITURE--Con.					
	MILL shapes and forms, except castings--Con.					
331020	Alloy steel, except stainless	1,000 s. tons	(S)	3.0	(S)	3.4
331031	Stainless steel	1,000 s. tons			(S)	1.4
	Aluminum and aluminum-base alloy mill shapes and forms:					
335301	Sheet, plate, and foil	Million lb	(S)	9.9	**44.0	13.8
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc		(S)	34.7	50.0	20.0
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)	Million lb	*24.9	17.6	*38.6	20.4
349538	Springs, innerspring units, and box spring constructions	1,000 s. tons	(S)	1.6	4.2	2.1
285101	Paints, varnishes, lacquers, japans, and enamels	Million gal	1.7	8.6	2.3	7.2
342901	Furniture and builders' hardware, including cabinet hardware, casters, glides, handles, hinges, locks, etc		(X)	35.2	(X)	17.5
307905	Plastics products consumed in the form of sheets, rods, tubes, and other shapes, excluding plastics furniture parts and components, and plastics laminated sheets		(X)	5.5	(X)	(6)
307951	Plastics furniture parts and components		(X)	21.8	(X)	13.5
307931	Plastics laminated sheets, including decorative sheets		(X)	11.7	(X)	12.8
229508	Coated or laminated fabric for upholstery, including vinyl coated	Mil. lin. yd	**20.1	28.6	**21.5	22.1
307921	Formed and slab stock for pillows, cushion seatings, etc. (urethane)	Million lb	(S)	10.5	(NA)	(6)
229308	Paddings, battings, and fillings, except rubber and plastic foam	Million lb	**5.3	2.5	(NA)	(6)
249200	Particleboard (wood)	Million sq. ft. (3/4" basis)	(S)	14.6	**100.8	17.0
265001	Paperboard boxes and containers		(X)	31.5	(X)	25.2
321101	Flat glass (plate, float, and sheet)	Million sq. ft.	**22.9	14.4	23.6	10.9
970099	All other materials and components, parts, containers, and supplies		(X)	126.9	(X)	6109.8
971000	All other materials, parts, containers, and supplies, n.s.k.[3]		(X)	101.2	(X)	35.0
	INDUSTRY 2515, MATTRESSES AND BEDSPRINGS					
	Materials, parts, containers, and supplies		(X)	736.3	(X)	529.3
242661	Furniture frames, wood		(X)	27.7	(X)	16.2
242620	Hardwood dimension and parts, excluding furniture frames	Million bd. ft.	**27.4	5.5	69.5	9.7
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes		(X)	1.3	(7)	(7)
	Carbon steel, including wrought iron mill shapes and forms:					
331012	Sheet and strip	1,000 s. tons	(S)	11.2	24.3	5.7
331019	All other carbon steel mill shapes and forms, including tubing		47.7	20.0	45.9	11.4
349538	Springs, innerspring units, and box spring constructions	1,000 s. tons	(S)	141.5	225.6	100.3
349535	Constructions (mechanisms) for dual-purpose sleep furniture		(X)	14.7	(X)	15.6
	Woven upholstery fabrics, excluding ticking and muslin:					
221161	Cotton	Mil. lin. yd	(S)	6.5	6.1	10.4
222103	Other (rayon, nylon, polyester, etc.)		**9.5	23.9	7.6	14.5
229508	Coated or laminated fabric for upholstery		(S)	3.2	5.2	6.6
221141	Ticking (mattress)	Mil. lin. yd	(S)	90.4	96.9	68.3
207431	Cotton linters (net weight)	Million lb	(S)	13.8	205.5	19.5
999806	Cotton waste		(S)	6.2	(7)	(7)
229308	Paddings, battings, and fillings, except rubber and plastics foam	Million lb	(S)	28.4	112.5	23.9
	Foam cores for mattresses, excluding topper pads:					
306933	Rubber	Thousands	(S)	4.8	405.4	13.0
307922	Urethane		(S)	40.8	2,905.3	17.6
251501	Purchased mattresses, all types	Thousands	(S)	3.3	(7)	(7)
970099	All other materials and components, parts, containers, and supplies		(X)	121.2	(X)	97.2
971000	Materials, parts, containers, and supplies, n.s.k.[3]		(X)	171.9	(X)	99.4
	INDUSTRY 2517, WOOD TV AND RADIO CABINETS					
	Materials, parts, containers, and supplies		(X)	148.3	(X)	156.1
242111	Hardwood lumber, rough and dressed	Million bd. ft.	46.5	16.3	56.4	13.1
242123	Softwood lumber, rough and dressed		12.7	3.2	22.5	3.4
242620	Hardwood dimension, and parts, excluding furniture parts	Million bd. ft.	(D)	(D)	24.8	13.9
243601	Softwood plywood	Million sq. ft. (3/8" basis).	(D)	(D)	16.4	3.3
	Hardwood plywood other than container type:					
243511	Veneer core	Mil. sq. ft. (surf. meas.).	4.8	3.8	31.0	5.9
243513	Lumber core, including particleboard core		(S)	5.8	14.0	5.4
243540	Hardwood veneer	Mil. sq. ft. (surf. meas.).	(S)	2.5	157.3	6.1
249200	Particleboard (wood)	Mil. sq. ft. (3/4" basis).	(S)	7.2	70.9	12.5
249970	Medium density fiberboard (MDF)	Million sq. ft. (3/4" basis).	(S)	1.1	(8)	(8)
249960	Hardboard (wood fiberboard)	Million sq. ft. (1/8" basis).	(S)	2.4	68.7	5.1

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of Materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2517, WOOD TV AND RADIO CABINETS--Con.					
242661	Furniture frames, wood	.....	(X)	(D)	(X)	(D)
285101	Paints, varnishes, lacquers, shellacs, japans, and enamels	Million gal.	*2.2	7.9	3.2	6.7
282104	Plastic resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	Million lb.	(D)	(D)	(8)	(8)
307931	Plastic laminated sheets	.....	(X)	1.6	(X)	(D)
307905	Plastic products consumed in the form of rods, tubes, and other shapes, excluding plastic furniture parts and components, and plastic laminated sheets	.....	(X)	(D)	(8)	(8)
342901	Furniture and builders' hardware, including cabinet hardware, casters, glides, handles, hinges, locks, etc	.....	(X)	11.2	(X)	13.1
307951	Plastic furniture parts and components	.....	(X)	5.3	(X)	14.4
970099	All other materials and components, parts, containers, and supplies consumed, n.e.c	.....	(X)	50.3	(X)	8 45.3
971000	Materials, parts, containers, and supplies, n.s.k.[3]	.....	(X)	12.4	(X)	5.6
	INDUSTRY 2519, HOUSEHOLD FURNITURE, N.E.C.					
	Materials, parts, containers, and supplies	.....	(X)	159.7	(X)	69.5
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	Million lb.	87.7	35.4		
307931	Plastics laminated sheets	.....	(X)	.2		
307905	Plastics products consumed in the form of rods, tubes, and other shapes, excluding plastics furniture parts, and components, and plastics laminated sheets	.....	(X)	1.6		
321101	Flat glass (plate, float, and sheet)	Million sq. ft.	.5	.3		
323150	Mirrors, framed and unframed	Million sq. ft.	(9)	(9)	(X)	69.5
342901	Furniture and builders' hardware, including cabinet hardware, casters, glides, handles, hinges, locks, etc	.....	(X)	3.2		
307951	Plastics furniture parts and components	.....	(X)	14.8		
970099	All other materials and components, parts, containers, and supplies	.....	(X)	9 76.5		
971000	Materials, parts, containers, and supplies, n.s.k.[3]	.....	(X)	27.7		

(D) Withheld to avoid disclosing operations of individual companies. [e]Estimated. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]For 1972, material codes 249970, 282104, and 307905 were included with material code 970099.

[3]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[4]10 to 30 percent of quantity was estimated.

[5]For 1972, material codes 999806, 307906, and 282104 were included with material code 970099.

[6]For 1972, material codes 307905, 307921, and 229308 were included with material code 970099.

[7]For 1972, material codes 307903, 999806, and 251501 were included with material code 970099.

[8]For 1972, material codes 249970, 282104, and 307905 were included with material code 970099.

[9]For 1977, material code 323150 was included with material code 970099 to avoid disclosing data for individual companies.

Office, Public Building, and Miscellaneous Furniture; Office and Store Fixtures

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DESCRIPTION OF INDUSTRIES

OFFICE, PUBLIC BUILDING, AND MISCELLANEOUS FURNITURE; OFFICE AND STORE FIXTURES

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2521	Wood Office Furniture
2522	Metal Office Furniture
2531	Public Building and Related Furniture
2541	Wood Partitions and Fixtures
2542	Metal Partitions and Fixtures
2591	Drapery Hardware and Blinds and Shades
2599	Furniture and Fixtures, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2521, WOOD OFFICE FURNITURE

This industry comprises establishments primarily engaged in the manufacture of wood office furniture, whether padded, upholstered, or plain.

The total value of shipments for establishments classified in the Wood Office Furniture industry amounted to $612 million in 1977, an increase of 145 percent from 1972. The value of shipments of products classified as primary to the industry was $562 million, an increase of 117 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $381 million in 1977, was 160 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 16.0 thousand employees, an increase of 39 percent from 1972. The leading States in employment were North Carolina, California, Michigan, and Indiana, accounting for approximately 70 percent of the industry's 1977 employment. Data for North Carolina and Michigan have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The 1977 census obtained data on shipments of wood office furniture only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the shipments of wood office furniture are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-25H, Office Furniture. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 7 percent of total value of shipments.

INDUSTRY 2522, METAL OFFICE FURNITURE

This industry comprises establishments primarily engaged in the manufacture of metal office furniture, whether padded, upholstered, or plain. Establishments primarily engaged in the manufacture of safes and vaults are classified in Industry 3499, Fabricated Metal Products, N.E.C.

The total value of shipments for establishments classified in the metal office furniture industry amounted to $1,397 million in 1977, an increase of 62 percent from 1972. The value of shipments of products classified as primary to the industry was $1,353 million, an increase of 71 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $855 million in 1977, was 67 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 29.0 thousand employees, an increase of 4 percent from 1972. The leading States in employment were Michigan, Pennsylvania, Ohio, and California, accounting for approximately 55 percent of the industry's 1977 employment. Data for Michigan and Ohio have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

The 1977 census obtained data on shipments of metal office furniture only at product class levels. This is the source of the data in table 6a described "As reported in census of manufactures." Detailed figures on the shipments of metal office furniture are reported annually in the Census Bureau's Current Industrial Reports (CIR) MA-25H, Office Furniture. Some of these data are also shown in table 6a.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

INDUSTRY 2531, PUBLIC BUILDING AND RELATED FURNITURE

This industry comprises establishments primarily engaged in the manufacture of furniture for schools, theaters, assembly halls, churches, libraries, and seats for public conveyances, as well as seats for automobiles and aircraft. Establishments primarily engaged in the manufacture of stone furniture are classified in Industry 3281, Cut Stone and Stone Products; and concrete furniture in Industry 3272, Precast Concrete Products.

The total value of shipments for establishments classified in the Public Building and Related Furniture industry amounted to $787 million in 1977, an increase of 47 percent from 1972. The value of shipments of products classified as primary to the industry was $725 million, an increase of 49 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were seats for public conveyances, for which shipments increased 123 percent, and stadium bleacher seating, including grandstands, for which shipments increased 209 percent. Value added by manufacture, at $415 million in 1977, was 40 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 20.0 thousand employees, a decrease of 7 percent from 1972. The leading States in employment were Michigan, Texas, California, and Arkansas, accounting for approximately 38 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of total value of shipments.

INDUSTRY 2541, WOOD PARTITIONS AND FIXTURES

This industry comprises establishments primarily engaged in the manufacture of wood shelving, lockers, office and store fixtures, prefabricated partitions, plastic laminated fixture tops, and related fabricated products. Establishments primarily engaged in the manufacture of refrigerated cabinets, show cases, and display cases are classified in Industry 3585, Refrigeration and Heating Equipment; and safes and vaults in Industry 3499, Fabricated Metal Products, N.E.C.

The total value of shipments for establishments classified in the Wood Partitions and Fixtures industry amounted to $1,106 million in 1977, an increase of 39 percent from 1972. The value of shipments of products classified as primary to the industry was $1,071 million, an increase of 39 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were plastic laminated fixture tops, for which shipments increased 44 percent, and partitions, for which shipments increased 49 percent. Value added by manufacture, at $621 million in 1977, was 36 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 29.4 thousand employees, a decrease of 6 percent from 1972. The leading States in employment were New York, California, Illinois, and Michigan, accounting for approximately 37 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 15 percent of total value of shipments.

INDUSTRY 2542, METAL PARTITIONS AND FIXTURES

This industry comprises establishments primarily engaged in the manufacture of metal shelving, storage racks, lockers, office and store fixtures, prefabricated partitions, and related fabricated products. Establishments primarily engaged in the manufacture of refrigerated cabinets, show cases, and display cases are classified in Industry 3585, Refrigeration and Heating Equipment; and safes and vaults in Industry 3499, Fabricated Metal Products, N.E.C.

The total value of shipments for establishments classified in the Metal Partitions and Fixtures industry amounted to $1,303

million in 1977, an increase of 77 percent from 1972. The value of shipments of products classified as primary to the industry was $1,216 million, an increase of 70 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were retail food store fixtures, for which shipments increased 251 percent, and portable metal stacking racks and frames, for which shipments increased 187 percent. Value added by manufacture, at $690 million in 1977, was 67 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 28.0 thousand employees, an increase of 7 percent from 1972. The leading States in employment were Illinois, Ohio, Pennsylvania, and New York, accounting for 45 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of total value of shipments.

INDUSTRY 2591, DRAPERY HARDWARE AND BLINDS AND SHADES

This industry comprises establishments primarily engaged in the manufacture of curtain and drapery rods, poles, and fixtures; and venetian blinds and other window blinds and shades. Establishments primarily engaged in the manufacture of canvas shades and awnings are classified in Industry 2394, Canvas and Related Products.

The total value of shipments for establishments classified in the Drapery Hardware and Blinds and Shades industry amounted to $675 million in 1977, an increase of 85 percent from 1972. The value of shipments of products classified as primary to the industry was $615 million, an increase of 98 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $345 million in 1977, was 74 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 13.6 thousand employees, an increase of 12 percent from 1972. The leading States in employment were California, Illinois, Michigan, and New York, accounting for approximately 50 percent of the industry's 1977 employment. Data for Illinois and Michigan have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided. These same States were in the forefront for 1972, although there has been some shift in the relative importance of individual States.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of total value of shipments.

INDUSTRY 2599, FURNITURE AND FIXTURES, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of furniture and fixtures, not elsewhere classified, including furniture especially designed for use in restaurants, bars, cafeterias, bowling establishments, and ships.

The total value of shipments for establishments classified in the Furniture and Fixtures, N.E.C. industry amounted to $705 million in 1977, an increase of 90 percent from 1972. The value of shipments of products classified as primary to the industry was $687 million, an increase of 81 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were restaurant, cafeteria, and bar furniture, for which shipments increased 95 percent. Value added by manufacture, at $402 million in 1977, was 90 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 18.1 thousand employees, an increase of 25 percent from 1972. The leading States in employment were California, New York, Illinois, and Florida, accounting for approximately 40 percent of the industry's 1977 employment. Data for Illinois have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2521, WOOD OFFICE FURNITURE																
1977 Census--	316	331	119	16.0	165.0	12.8	25.5	110.2	381.3	239.0	612.0	26.5	(NA)	107.1	85	90
1976 ASM----	(NA)	(NA)	(NA)	12.8	115.9	10.7	20.1	81.1	207.2	153.1	356.5	6.3	89.3	71.4	(NA)	(NA)
1975 ASM[6]---	(NA)	(NA)	(NA)	11.6	98.2	9.7	17.4	68.1	166.5	127.6	294.8	5.8	87.5	61.6	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	13.4	106.3	11.4	22.0	78.2	186.4	150.4	335.9	7.4	84.8	67.9	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	12.4	90.1	10.4	20.7	67.2	142.0	121.7	264.5	10.5	80.2	58.5	(NA)	(NA)
1972 Census--	232	240	104	11.5	80.1	9.6	19.4	60.1	146.7	106.2	249.7	7.3	64.7	50.1	90	84
1971 ASM----	(NA)	(NA)	(NA)	8.7	56.4	7.3	14.2	42.2	99.2	76.4	174.8	3.1	53.2	37.9	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	9.6	59.2	8.2	16.4	44.5	119.0	78.8	197.8	3.3	54.0	40.1	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	9.5	60.4	7.9	16.6	45.2	128.7	86.5	212.7	3.7	44.6	37.6	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	8.3	51.9	7.0	15.1	38.8	94.6	81.1	173.9	3.5	37.9	29.9	(NA)	(NA)
1967 Census--	172	178	69	8.2	46.4	6.9	14.3	35.6	88.8	71.7	158.3	5.7	35.4	27.0	89	86
1966 ASM----	(NA)	(NA)	(NA)	7.8	42.6	6.6	13.5	31.6	74.6	62.6	136.4	3.5	(NA)	21.7	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	7.5	38.3	6.3	13.1	28.8	68.1	55.2	122.9	2.2	(NA)	19.5	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	6.7	32.8	5.7	11.9	25.5	58.7	51.2	109.3	1.3	21.2	18.8	(NA)	(NA)
1963 Census--	131	138	58	6.5	30.6	5.6	11.8	23.7	57.0	45.3	101.5	1.5	19.7	17.1	90	87
INDUSTRY 2522, METAL OFFICE FURNITURE																
1977 Census--	167	192	114	29.0	377.6	22.3	43.6	265.7	854.8	553.2	1 397.4	41.1	(NA)	237.2	94	92
1976 ASM[6]---	(NA)	(NA)	(NA)	25.7	298.5	18.9	37.3	201.6	652.4	452.3	1 094.0	34.2	336.2	209.2	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	25.2	272.0	18.4	36.5	183.1	589.5	399.4	981.9	23.9	320.8	189.8	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	31.1	313.3	24.1	49.0	221.1	645.2	436.4	1 069.4	25.2	304.4	202.0	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	30.1	286.4	22.7	46.5	192.4	638.9	394.8	1 023.7	39.6	302.4	167.6	(NA)	(NA)
1972 Census--	165	193	118	27.8	249.9	20.8	42.9	168.0	513.2	353.2	861.5	24.5	261.5	144.5	90	89
1971 ASM----	(NA)	(NA)	(NA)	25.0	201.8	18.1	37.5	134.2	415.5	263.7	682.5	14.2	251.2	128.7	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	27.6	205.6	20.4	42.4	136.3	425.2	254.2	682.1	14.2	248.8	115.7	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	30.5	219.4	23.1	46.5	151.7	478.6	304.2	764.5	20.3	252.9	131.9	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	27.1	186.3	20.9	42.7	128.3	398.9	262.6	654.2	32.6	231.4	107.3	(NA)	(NA)
1967 Census--	166	187	120	27.0	178.5	21.1	42.9	125.3	389.3	239.5	622.9	31.5	207.7	95.8	89	88
1966 ASM----	(NA)	(NA)	(NA)	25.8	166.4	20.5	43.0	118.7	353.5	245.4	596.0	19.6	(NA)	90.8	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	21.7	134.3	17.1	35.9	93.6	290.5	199.4	493.8	11.7	(NA)	77.0	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	20.3	119.4	15.8	32.0	84.8	257.1	183.9	436.7	8.9	159.1	69.6	(NA)	(NA)
1963 Census--	153	170	107	19.9	112.1	15.8	31.5	81.4	228.3	160.1	390.0	14.2	151.5	67.2	87	89
INDUSTRY 2531, PUBLIC BUILDING AND RELATED FURNITURE																
1977 Census--	401	420	185	20.0	214.3	15.0	29.2	132.9	414.9	381.8	787.4	22.3	(NA)	138.3	88	87
1976 ASM----	(NA)	(NA)	(NA)	20.6	196.4	15.8	29.6	125.5	373.0	371.8	743.8	15.6	166.8	121.2	(NA)	(NA)
1975 ASM[5]---	(NA)	(NA)	(NA)	20.0	173.6	15.6	28.0	115.8	331.1	317.1	657.5	15.8	152.7	113.4	(NA)	(NA)
1974 ASM[5]---	(NA)	(NA)	(NA)	21.6	186.1	16.9	31.7	124.5	338.7	305.8	643.1	15.6	154.8	135.7	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	22.2	169.1	17.4	33.0	112.0	299.6	265.6	564.9	13.0	150.5	121.0	(NA)	(NA)
1972 Census--	405	422	195	21.4	157.8	16.3	31.6	103.8	295.9	249.5	535.3	13.0	143.6	108.6	86	87
1971 ASM----	(NA)	(NA)	(NA)	21.0	135.5	16.3	30.9	89.0	254.5	218.5	471.8	8.8	121.3	94.8	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	23.1	149.9	18.2	36.0	101.2	255.3	214.2	462.6	18.1	126.5	119.4	(NA)	(NA)
1969 ASM[6]---	(NA)	(NA)	(NA)	23.4	154.5	18.3	37.0	104.6	267.4	214.2	468.5	12.1	109.5	112.5	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	21.0	127.7	16.4	33.1	83.1	241.3	191.3	432.3	7.6	96.4	80.4	(NA)	(NA)
1967 Census--	428	438	188	22.6	132.2	17.5	36.3	89.2	233.6	194.7	421.2	10.0	94.5	86.4	84	86
1966 ASM----	(NA)	(NA)	(NA)	18.5	101.4	14.4	30.0	71.3	186.2	164.1	343.5	8.3	(NA)	67.4	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	17.9	95.6	13.8	29.4	66.1	165.7	153.6	312.8	6.4	(NA)	61.9	(NA)	(NA)
1964 ASM[6]---	(NA)	(NA)	(NA)	16.8	86.6	13.4	27.5	60.3	145.9	142.4	284.4	7.3	73.0	57.2	(NA)	(NA)
1963 Census--	424	429	164	16.9	83.4	13.3	26.8	57.4	141.8	127.9	268.6	4.4	66.3	53.8	88	85
INDUSTRY 2541, WOOD PARTITIONS AND FIXTURES																
1977 Census--	1 572	1 598	394	29.4	352.9	23.0	45.3	241.0	621.4	496.1	1 105.8	22.4	(NA)	158.2	92	88
1976 ASM[6]---	(NA)	(NA)	(NA)	29.1	316.0	23.0	43.5	215.8	543.0	449.5	992.9	21.3	169.1	126.6	(NA)	(NA)
1975 ASM[6]---	(NA)	(NA)	(NA)	27.3	279.2	21.6	41.5	194.5	481.4	382.6	867.1	14.7	155.0	123.2	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	29.2	288.6	23.4	45.1	202.7	517.7	390.7	911.2	18.3	147.6	121.8	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	32.3	285.9	25.8	50.1	201.9	496.3	377.1	866.8	15.6	154.9	133.4	(NA)	(NA)
1972 Census--	1 473	1 503	412	31.2	268.2	24.8	48.3	187.6	458.6	341.9	793.2	14.6	153.6	118.0	92	89
1971 ASM----	(NA)	(NA)	(NA)	26.3	222.5	20.8	40.6	154.0	378.9	274.3	645.3	11.3	121.1	93.4	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	27.8	220.2	22.2	44.2	152.1	358.1	266.0	622.6	10.5	118.8	81.9	(NA)	(NA)
1969 ASM[6]---	(NA)	(NA)	(NA)	30.0	219.1	24.4	48.9	158.6	375.0	275.3	642.3	7.3	108.6	78.7	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	25.7	183.1	20.9	41.6	131.8	304.7	226.2	524.7	8.9	109.0	63.4	(NA)	(NA)
1967 Census--	1 463	1 470	338	25.3	170.7	20.7	40.9	124.1	284.6	214.8	498.6	8.1	103.7	56.6	93	89
1966 ASM----	(NA)	(NA)	(NA)	25.0	161.9	20.4	40.3	119.1	260.8	208.4	462.0	6.9	(NA)	55.1	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	25.1	153.8	20.3	40.2	114.2	234.7	196.3	426.6	8.8	(NA)	49.3	(NA)	(NA)
1964 ASM[6]---	(NA)	(NA)	(NA)	23.2	139.0	18.6	38.2	101.9	211.4	172.7	389.6	4.6	71.4	46.0	(NA)	(NA)
1963 Census--	1 588	1 594	347	24.3	142.5	19.4	40.0	106.3	219.2	172.5	389.6	6.8	67.8	46.5	94	89

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2542, METAL PARTITIONS AND FIXTURES																
1977 Census--	508	536	272	28.0	322.2	21.3	40.5	213.2	689.7	630.2	1 303.0	36.5	(NA)	236.5	89	91
1976 ASM----	(NA)	(NA)	(NA)	21.9	242.3	16.3	31.5	156.2	517.8	454.9	959.3	16.7	266.8	177.1	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	21.0	212.3	14.8	29.6	131.8	458.8	406.2	878.2	21.6	259.6	165.2	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	25.6	237.9	18.4	37.6	150.1	546.8	458.3	987.6	22.2	239.3	185.8	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	26.3	231.3	19.5	38.7	149.1	444.8	367.8	805.6	22.7	242.7	142.3	(NA)	(NA)
1972 Census--	482	507	239	26.2	215.7	19.9	38.5	143.1	412.4	326.3	734.5	19.4	237.5	119.5	90	86
1971 ASM----	(NA)	(NA)	(NA)	22.2	167.7	16.7	30.9	107.0	328.5	256.8	580.1	13.3	103.4	103.4	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	22.7	166.0	16.8	32.7	105.8	324.9	257.4	579.0	14.9	94.2	94.2	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	25.2	177.4	18.8	37.5	110.1	334.6	251.0	583.8	12.5	172.5	90.5	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	23.4	163.9	17.6	35.7	102.0	309.6	220.2	524.1	13.4	156.6	81.6	(NA)	(NA)
1967 Census--	491	500	188	22.7	152.9	17.0	35.1	96.0	302.5	213.0	512.0	19.9	150.6	75.3	90	84
1966 ASM----	(NA)	(NA)	(NA)	25.5	160.8	19.4	40.1	110.1	303.5	223.0	520.1	9.1	(NA)	75.5	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	21.7	138.2	16.2	34.4	91.7	253.0	174.9	422.5	10.9	(NA)	62.9	(NA)	(NA)
1964 ASM[6]---	(NA)	(NA)	(NA)	21.6	128.9	15.7	33.6	85.0	236.8	171.8	403.9	7.1	124.5	61.1	(NA)	(NA)
1963 Census--	(NA)	513	167	20.3	119.3	1.4	31.7	79.2	214.3	165.7	377.8	8.5	117.8	56.8	83	82
INDUSTRY 2591, DRAPERY HARDWARE AND BLINDS AND SHADES																
1977 Census--	435	456	85	13.6	145.6	10.3	20.0	99.1	345.0	331.6	675.1	16.7	(NA)	115.6	95	96
1976 ASM[5]---	(NA)	(NA)	(NA)	12.6	116.3	9.6	16.1	78.6	265.0	265.7	530.5	12.4	84.1	95.4	(NA)	(NA)
1975 ASM[6]---	(NA)	(NA)	(NA)	11.1	99.6	8.1	13.4	63.8	201.0	208.6	423.1	10.5	73.0	97.2	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	12.1	99.4	8.8	15.7	64.4	225.0	205.1	414.7	8.2	75.9	110.2	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	12.6	99.9	9.1	17.3	63.3	225.0	190.3	415.3	6.7	86.3	91.3	(NA)	(NA)
1972 Census--	493	505	66	12.1	94.4	8.7	17.1	56.6	198.2	163.9	364.5	9.9	84.2	79.7	90	96
1971 ASM----	(NA)	(NA)	(NA)	13.3	91.5	9.4	19.2	55.3	190.5	160.1	349.4	7.8	83.1	80.0	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	14.1	95.9	9.9	18.7	57.1	173.0	155.4	323.8	6.4	79.5	77.4	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	12.4	75.5	9.2	17.2	45.8	158.5	142.9	295.4	4.0	68.9	65.9	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	11.8	68.0	8.8	17.0	41.4	138.7	142.7	280.7	6.9	66.5	58.7	(NA)	(NA)
1967 Census--	581	605	61	11.6	62.1	8.6	15.9	37.7	122.3	125.4	246.8	6.5	60.7	49.8	89	94
1966 ASM----	(NA)	(NA)	(NA)	11.7	58.1	8.6	17.0	37.0	113.5	118.9	229.0	4.0	(NA)	48.0	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	11.7	56.3	8.3	17.4	36.1	111.5	121.0	228.8	3.0	(NA)	44.6	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	10.9	52.6	8.2	16.1	35.8	102.1	114.1	215.6	3.1	51.6	34.4	(NA)	(NA)
1963 Census--	695	718	60	10.7	49.6	8.0	15.8	32.5	94.3	105.1	199.6	4.3	48.9	34.7	89	90
INDUSTRY 2599, FURNITURE AND FIXTURES, N.E.C.																
1977 Census--	528	541	195	18.1	201.4	13.7	27.0	131.0	401.9	310.1	705.2	12.0	(NA)	120.1	87	82
1976 ASM[6]---	(NA)	(NA)	(NA)	13.5	145.6	10.5	20.0	91.5	268.4	244.2	513.6	9.3	81.5	88.8	(NA)	(NA)
1975 ASM[6]---	(NA)	(NA)	(NA)	13.6	139.4	10.3	20.4	87.2	261.1	231.7	500.8	10.2	86.9	92.7	(NA)	(NA)
1974 ASM[6]---	(NA)	(NA)	(NA)	14.3	141.3	11.6	23.7	91.4	274.6	201.8	470.4	10.4	85.6	94.1	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	15.9	134.6	12.6	25.0	90.5	270.1	193.0	451.5	6.8	78.0	77.5	(NA)	(NA)
1972 Census--	477	494	177	14.5	115.5	11.6	22.9	79.6	211.7	163.0	372.0	14.8	72.6	52.7	87	79
1971 ASM----	(NA)	(NA)	(NA)	10.7	79.7	8.8	17.0	55.5	126.1	100.9	227.0	5.9	60.7	37.3	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	10.3	71.6	8.3	17.0	52.0	119.6	91.8	210.3	2.9	53.8	36.7	(NA)	(NA)
1969 ASM[5]---	(NA)	(NA)	(NA)	10.0	65.5	8.3	16.4	49.6	107.4	92.9	201.1	6.2	41.6	27.1	(NA)	(NA)
1968 ASM[5]---	(NA)	(NA)	(NA)	10.1	64.9	8.3	17.3	49.2	112.0	88.8	205.0	2.6	40.7	26.9	(NA)	(NA)
1967 Census--	317	324	119	10.1	59.4	8.4	17.2	44.8	98.9	82.4	179.0	3.5	39.8	24.0	87	75
1966 ASM[6]---	(NA)	(NA)	(NA)	7.9	45.7	6.7	14.0	33.2	81.8	69.3	152.5	2.5	(NA)	15.8	(NA)	(NA)
1965 ASM[6]---	(NA)	(NA)	(NA)	7.5	40.8	6.4	12.7	29.3	75.3	69.1	143.4	1.9	(NA)	14.6	(NA)	(NA)
1964 ASM[6]---	(NA)	(NA)	(NA)	7.6	39.9	6.2	12.6	28.7	66.0	58.4	125.7	0.8	23.2	13.6	(NA)	(NA)
1963 Census--	354	356	91	7.5	39.6	6.2	12.4	28.8	65.9	55.3	121.6	1.7	21.2	14.3	86	70

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2521, WOOD OFFICE FURNITURE											
1977 Census--	10 330	(NA)	80	1 991	4.32	39	66	(NA)	23 870	43	14.96
1976 ASM----	9 054	6 976	83	1 878	4.03	42	75	25	16 187	55	10.30
1975 ASM----	8 465	7 543	83	1 793	3.91	43	76	29	14 353	58	9.56
1974 ASM----	7 932	6 328	85	1 929	3.55	44	76	25	13 910	57	8.47
1973 ASM----	7 266	6 467	83	1 990	3.24	45	80	30	11 451	63	6.85
1972 Census--	6 965	5 626	83	2 020	3.09	42	74	25	12 756	54	7.56
1971 ASM----	6 482	6 114	83	1 945	2.97	43	75	30	11 402	56	6.98
1970 ASM----	6 166	5 625	85	2 000	2.71	39	69	27	12 395	49	7.25
1969 ASM----	6 357	4 694	83	2 101	2.72	40	69	20	13 547	46	7.75
1968 ASM----	6 253	4 566	84	2 157	2.56	46	76	21	11 397	54	6.26
1967 Census--	5 658	4 317	84	2 072	2.48	45	74	22	10 829	52	6.20
1966 ASM----	5 461	(NA)	84	2 045	2.34	45	77	(NA)	9 564	57	5.52
1965 ASM----	5 106	(NA)	84	2 079	2.19	44	76	(NA)	9 080	56	5.19
1964 ASM----	4 895	3 164	85	2 087	2.14	46	76	19	8 761	55	4.93
1963 Census--	4 707	3 030	86	2 107	2.00	44	74	19	8 769	53	4.83
INDUSTRY 2522, METAL OFFICE FURNITURE											
1977 Census--	13 001	(NA)	76	1 958	5.09	39	66	(NA)	29 430	44	19.60
1976 ASM----	11 614	13 081	73	1 973	5.40	41	68	30	25 385	45	17.49
1975 ASM----	10 793	12 730	73	1 983	5.01	40	68	32	23 392	46	16.15
1974 ASM----	10 073	9 787	77	2 033	4.51	40	70	28	20 745	48	13.16
1973 ASM----	9 514	10 046	75	2 048	4.13	38	66	29	21 225	44	13.73
1972 Census--	8 989	9 406	74	2 062	3.91	40	70	30	18 460	48	11.96
1971 ASM----	8 072	10 048	72	2 071	3.57	38	68	36	16 620	48	11.08
1970 ASM----	7 449	9 014	73	2 078	3.21	37	67	36	15 405	48	10.02
1969 ASM----	7 193	8 291	75	2 012	3.26	39	68	33	15 691	45	10.29
1968 ASM----	6 874	8 538	77	2 043	3.00	40	68	35	14 719	46	9.34
1967 Census--	6 611	7 692	78	2 033	2.92	38	67	33	14 418	45	9.07
1966 ASM----	6 449	(NA)	79	2 097	2.76	41	69	(NA)	13 701	47	8.22
1965 ASM----	6 188	(NA)	78	2 099	2.60	40	67	(NA)	13 387	46	8.09
1964 ASM----	5 881	7 837	77	2 025	2.65	42	69	36	12 665	46	8.03
1963 Census--	5 633	7 613	79	1 993	2.58	41	69	38	11 472	49	7.24
INDUSTRY 2531, PUBLIC BUILDING AND RELATED FURNITURE											
1977 Census--	10 720	(NA)	75	1 945	4.55	48	75	(NA)	20 757	51	14.22
1976 ASM----	9 533	8 097	76	1 873	4.23	49	76	22	18 106	52	12.60
1975 ASM----	8 680	7 635	78	1 794	4.13	48	74	23	16 555	52	11.82
1974 ASM----	8 615	7 166	78	1 875	3.92	47	76	24	15 680	54	10.68
1973 ASM----	7 617	6 779	78	1 896	3.39	47	76	26	13 495	56	9.07
1972 Census--	7 373	6 710	76	1 938	3.28	46	76	26	13 827	53	9.36
1971 ASM----	6 452	5 776	77	1 895	2.88	46	75	25	12 119	53	8.23
1970 ASM----	6 489	5 476	78	1 978	2.81	46	78	27	11 051	58	7.09
1969 ASM----	6 602	4 679	78	2 021	2.82	45	78	23	11 427	57	7.22
1968 ASM----	6 080	4 590	78	2 018	2.51	44	73	22	11 490	52	7.29
1967 Census--	5 849	4 181	77	2 074	2.45	46	77	22	10 336	56	6.43
1966 ASM----	5 481	(NA)	77	2 083	2.37	47	77	(NA)	10 064	54	6.20
1965 ASM----	5 340	(NA)	77	2 130	2.24	49	79	(NA)	9 256	57	5.63
1964 ASM----	5 154	4 345	79	2 052	2.19	50	80	25	8 684	59	5.30
1963 Census--	4 934	3 923	78	2 015	2.14	47	78	24	8 390	58	5.29
INDUSTRY 2541, WOOD PARTITIONS AND FIXTURES											
1977 Census--	11 998	(NA)	78	1 968	5.31	44	76	(NA)	21 126	56	13.70
1976 ASM----	10 859	5 810	79	1 891	4.96	45	77	17	18 659	58	12.48
1975 ASM----	10 227	5 677	79	1 921	4.68	44	76	17	17 633	57	11.60
1974 ASM----	9 883	5 054	80	1 927	4.49	42	74	16	17 729	55	11.47
1973 ASM----	8 851	4 795	79	1 941	4.02	43	76	17	15 365	57	9.90
1972 Census--	8 596	4 923	79	1 947	3.88	43	76	19	14 698	58	9.49
1971 ASM----	8 460	4 604	79	1 951	3.79	42	76	18	14 406	58	9.33
1970 ASM----	7 920	4 273	79	1 990	3.44	42	78	19	12 881	61	8.10
1969 ASM----	7 303	3 620	81	2 004	3.24	42	76	16	12 500	58	7.66
1968 ASM----	7 124	4 241	81	1 990	3.16	43	78	20	11 856	60	7.32
1967 Census--	6 747	4 098	81	1 975	3.03	43	77	20	11 249	59	6.95
1966 ASM----	6 476	(NA)	81	1 975	2.95	45	80	(NA)	10 432	62	6.47
1965 ASM----	6 127	(NA)	80	1 980	2.84	46	82	(NA)	9 350	65	5.83
1964 ASM----	5 991	3 077	80	2 053	2.66	44	80	18	9 112	65	5.53
1963 Census--	5 864	2 790	79	2 061	2.65	44	80	17	9 020	65	5.48

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2542, METAL PARTITIONS AND FIXTURES										
1977 Census--	11 500	(NA)	75	1 904	5.25	48	73	(NA)	24 614	46	17.01
1976 ASM----	11 063	12 182	74	1 932	4.95	47	72	27	23 643	46	16.43
1975 ASM----	10 109	12 361	70	2 000	4.45	46	70	29	21 847	46	15.50
1974 ASM----	9 292	9 347	71	2 043	3.99	46	70	24	21 359	43	14.54
1973 ASM----	8 794	9 228	74	1 984	3.85	45	74	30	16 912	52	11.49
1972 Census--	8 232	9 064	75	1 934	3.71	44	73	32	15 740	52	10.71
1971 ASM----	7 554	4 657	75	1 850	3.46	44	73	17	14 797	51	10.63
1970 ASM----	7 312	4 149	74	1 946	3.23	44	73	16	14 312	51	9.93
1969 ASM----	7 039	6 845	74	1 994	2.93	42	73	29	13 277	53	8.92
1968 ASM----	7 004	6 692	75	2 028	2.85	42	73	29	13 230	52	8.67
1967 Census--	6 735	6 634	74	2 064	2.73	41	71	29	13 325	50	8.61
1966 ASM----	6 305	(NA)	76	2 067	2.74	42	73	(NA)	11 901	52	7.56
1965 ASM----	6 368	(NA)	74	2 123	2.66	41	74	(NA)	11 658	54	7.35
1964 ASM----	5 967	5 763	72	2 140	2.52	42	74	30	10 962	54	7.04
1963 Census--	5 876	5 802	6	22 642	2.49	43	75	31	10 556	55	6.76
	INDUSTRY 2591, DRAPERY HARDWARE AND BLINDS AND SHADES										
1977 Census--	10 688	(NA)	75	1 933	4.95	49	70	(NA)	25 337	42	17.26
1976 ASM----	9 230	6 674	76	1 677	4.88	50	72	15	21 031	43	16.45
1975 ASM----	8 972	6 576	72	1 654	4.76	49	72	17	18 108	49	15.00
1974 ASM----	8 214	6 272	72	1 784	4.10	49	73	18	18 595	44	14.33
1973 ASM----	7 928	6 849	72	1 901	3.65	45	69	20	17 857	44	13.00
1972 Census--	7 801	6 958	71	1 965	3.30	44	70	23	16 380	47	11.59
1971 ASM----	6 879	6 248	70	2 042	2.88	45	72	23	14 323	48	9.92
1970 ASM----	6 801	5 638	70	1 888	3.05	47	77	24	12 269	55	9.25
1969 ASM----	6 088	5 556	74	1 869	2.66	48	73	23	12 782	47	9.21
1968 ASM----	5 762	5 635	74	1 931	2.43	50	75	23	11 754	49	8.15
1967 Census--	5 353	5 232	74	1 848	2.37	50	75	24	10 543	50	7.69
1966 ASM----	4 965	(NA)	73	1 976	2.17	51	77	(NA)	9 700	51	6.67
1965 ASM----	4 811	(NA)	70	2 096	2.07	53	78	(NA)	9 529	50	6.40
1964 ASM----	4 825	4 733	75	1 963	2.22	52	77	23	9 366	51	6.34
1963 Census--	4 635	4 570	74	1 975	2.05	52	77	24	8 813	52	5.96
	INDUSTRY 2599, FURNITURE AND FIXTURES, N.E.C.										
1977 Census--	11 143	(NA)	75	1 970	4.86	43	72	(NA)	22 234	50	14.90
1976 ASM----	10 785	6 037	77	1 904	4.57	47	75	15	19 881	54	13.42
1975 ASM----	10 250	6 389	75	1 980	4.27	46	74	17	19 198	53	12.79
1974 ASM----	9 881	5 986	81	2 043	3.85	42	72	18	19 202	51	11.58
1973 ASM----	8 465	4 905	79	1 984	3.62	42	72	17	16 987	49	10.80
1972 Census--	7 965	5 006	80	1 974	3.47	43	74	19	14 600	54	9.24
1971 ASM----	7 448	5 672	82	1 931	3.26	44	79	26	11 785	63	7.41
1970 ASM----	6 951	6 194	80	2 048	3.05	43	77	30	11 611	59	7.03
1969 ASM----	6 550	4 160	83	1 975	3.02	46	78	20	10 740	60	6.54
1968 ASM----	6 425	4 029	82	2 084	2.84	43	74	19	11 089	57	6.47
1967 Census--	5 881	3 940	83	2 047	2.60	46	79	22	9 792	60	5.75
1966 ASM----	5 784	(NA)	84	2 089	2.37	45	75	(NA)	10 354	55	5.84
1965 ASM----	5 440	(NA)	85	1 984	2.30	48	76	(NA)	10 040	54	5.92
1964 ASM----	5 250	3 052	81	2 032	2.27	46	78	18	8 684	60	5.23
1963 Census--	5 280	2 826	82	2 000	2.32	45	78	17	8 786	60	5.31

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2521, WOOD OFFICE FURNITURE													
United States	-	**331**	**119**	**16.0**	**165.0**	**12.8**	**25.5**	**110.2**	**381.3**	**239.0**	**612.0**	**26.5**	**11.5**	**146.7**
New England Division:													
Massachusetts	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Middle Atlantic Division:													
New York	-	32	11	1.2	11.9	0.9	1.9	9.0	20.3	13.8	34.2	0.5	1.1	17.4
Pennsylvania	-	13	5	0.6	6.1	0.4	0.8	3.7	12.4	5.6	17.4	0.3	0.7	7.9
East North Central Division:														
Ohio	E1	8	2	0.2	2.4	0.2	0.3	1.7	3.9	2.9	6.6	0.2	CC	(D)
Indiana	-	17	15	2.2	22.3	1.9	3.9	16.9	46.7	35.6	81.0	3.0	1.4	19.5
Illinois	-	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Michigan	-	12	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	7.0
West North Central Division:														
Iowa	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Missouri	E4	7	2	0.2	1.6	0.2	0.3	1.4	2.8	3.4	5.9	(Z)	(NA)	(NA)
South Atlantic Division:														
North Carolina	-	18	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Florida	E4	25	3	0.2	2.1	0.2	0.3	1.5	3.3	2.0	5.2	(D)	BB	(D)
East South Central Division:														
Kentucky	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Alabama	-	5	3	0.2	2.0	0.2	0.4	1.5	3.3	3.8	7.2	0.2	(NA)	(NA)
West South Central Division:														
Texas	-	21	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
Washington	-	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California	E1	88	29	2.8	28.4	2.3	4.5	18.8	49.8	36.3	85.2	2.4	EE	(D)
INDUSTRY 2522, METAL OFFICE FURNITURE														
United States	-	**192**	**114**	**29.0**	**377.6**	**22.3**	**43.6**	**265.7**	**854.8**	**553.2**	**1 397.4**	**41.1**	**27.8**	**513.2**
New England Division:														
Massachusetts	-	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	E1	28	16	2.4	25.2	1.8	3.6	16.4	55.2	33.2	86.8	(D)	2.8	46.2
New Jersey	-	8	6	1.4	11.1	1.1	2.0	7.7	25.3	25.6	50.8	(D)	EE	(D)
Pennsylvania	-	20	12	3.7	47.0	3.0	5.8	34.9	91.4	68.0	155.7	3.1	4.0	61.0
East North Central Division:														
Ohio	-	12	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Indiana	-	5	4	1.0	9.9	0.7	1.4	7.1	16.2	12.0	27.5	0.2	1.0	12.4
Illinois	-	8	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Michigan	-	10	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	114.3
Wisconsin	-	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West North Central Division:														
Iowa	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Missouri	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Kansas	E2	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Atlantic Division:														
Delaware	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Virginia	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
North Carolina	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	-	7	5	0.7	6.9	0.6	1.1	5.5	22.3	16.0	37.5	(D)	BB	(D)
Florida	-	3	2	0.2	1.3	0.1	0.2	0.8	4.0	2.3	6.2	(D)	AA	(D)
East South Central Division:														
Kentucky	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Tennessee	-	3	3	0.2	2.5	0.2	0.3	1.7	10.7	3.6	14.5	0.2	BB	(D)
Alabama	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Texas	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
California	-	36	20	2.6	30.5	2.1	4.0	22.7	86.3	62.4	147.8	1.8	EE	(D)
INDUSTRY 2531, PUBLIC BUILDING AND RELATED FURNITURE														
United States	-	**420**	**185**	**20.0**	**214.3**	**15.0**	**29.2**	**132.9**	**414.9**	**381.8**	**787.4**	**22.3**	**21.4**	**295.9**
New England Division:														
Maine	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Connecticut	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	E1	16	2	0.4	4.6	0.2	0.5	2.3	7.5	7.8	15.4	(D)	0.8	16.2
New Jersey	-	9	5	0.2	2.8	0.2	0.3	1.8	4.8	4.4	9.2	(D)	BB	(D)
Pennsylvania	-	21	9	0.9	10.2	0.6	1.3	5.6	18.7	15.6	34.3	(D)	CC	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 2531, PUBLIC BUILDING AND RELATED FURNITURE—Con.														
East North Central Division:														
Ohio	-	22	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	10.5
Indiana	-	18	10	0.7	5.9	0.6	1.0	4.1	9.6	13.0	22.5	0.4	0.8	9.5
Illinois	E1	19	11	1.1	10.7	0.8	1.5	6.3	19.7	18.8	37.9	2.1	EE	(D)
Michigan	E1	26	12	2.4	31.5	1.6	3.1	17.5	53.6	45.3	98.6	(D)	3.4	53.7
Wisconsin	-	18	8	0.7	7.9	0.6	1.1	5.3	23.1	30.6	53.8	(D)	CC	(D)
West North Central Division:														
Minnesota	-	5	4	0.6	7.8	0.4	0.8	4.2	17.3	11.2	28.3	(D)	BB	(D)
Iowa	-	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Missouri	-	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.0
South Atlantic Division:														
Virginia	-	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
North Carolina	-	19	9	1.2	11.6	1.0	1.9	7.4	22.9	15.3	37.0	(D)	CC	(D)
Florida	E4	14	6	0.2	2.1	0.2	0.3	1.3	3.5	3.6	7.1	0.1	0.2	2.7
East South Central Division:														
Tennessee	-	17	9	0.6	6.1	0.5	1.0	4.1	12.0	11.5	23.3	0.5	CC	(D)
Alabama	-	11	5	0.5	3.6	0.5	0.8	2.9	13.2	5.2	17.8	(D)	0.2	1.6
Mississippi	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West South Central Division:														
Arkansas	-	17	11	1.4	13.8	1.1	1.9	8.0	29.4	28.5	57.6	(D)	EE	(D)
Texas	-	28	15	1.9	14.6	1.5	2.9	9.8	27.7	29.0	56.5	1.2	2.2	23.0
Mountain Division:														
Colorado	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	-	8	6	0.7	8.1	0.5	0.9	5.2	17.9	13.0	30.4	(D)	0.5	8.7
California	-	58	16	1.8	20.6	1.4	2.8	13.2	37.2	33.7	70.7	1.5	1.9	25.1
INDUSTRY 2541, WOOD PARTITIONS AND FIXTURES														
United States	**E1**	**1 598**	**394**	**29.4**	**352.9**	**23.0**	**45.3**	**241.0**	**621.4**	**496.1**	**1 105.8**	**22.4**	**31.2**	**458.6**
New England Division:														
New Hampshire	-	12	3	0.2	2.7	0.2	0.4	2.0	4.3	3.6	8.0	0.1	AA	(D)
Massachusetts	E1	40	7	0.4	5.1	0.3	0.5	3.2	9.6	6.4	15.9	0.2	0.6	7.9
Connecticut	E2	20	5	0.4	5.7	0.3	0.6	3.5	9.1	8.5	17.6	(D)	BB	(D)
Middle Atlantic Division:														
New York	E1	167	45	3.4	42.2	2.8	5.4	31.1	70.5	49.8	118.6	(D)	3.8	62.2
New Jersey	E1	56	18	1.1	12.3	0.8	1.6	8.4	21.4	15.9	37.1	(D)	EE	(D)
Pennsylvania	-	80	26	1.7	19.3	1.4	2.8	14.4	34.1	26.8	60.6	1.2	EE	(D)
East North Central Division:														
Ohio	E1	71	15	1.2	15.8	0.9	1.7	10.0	26.7	19.5	45.4	(D)	1.3	20.2
Indiana	E2	39	7	0.5	5.0	0.4	0.7	3.3	10.5	8.9	19.3	1.2	0.5	7.8
Illinois	-	92	24	2.4	30.3	1.9	3.8	20.7	53.8	51.1	104.2	1.2	2.6	37.5
Michigan	E8	61	18	1.7	20.3	1.3	2.5	12.4	33.6	27.7	60.5	(D)	1.7	26.3
Wisconsin	-	43	12	0.7	8.3	0.6	1.2	5.9	18.5	18.5	36.8	(D)	0.8	10.5
West North Central Division:														
Minnesota	-	33	9	0.5	7.6	0.4	0.7	4.8	15.2	9.3	24.2	(D)	0.5	8.0
Iowa	-	14	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri	E1	37	10	0.6	7.9	0.5	0.9	5.1	12.1	8.9	20.9	(D)	0.6	8.8
Nebraska	-	8	2	0.3	3.6	0.2	0.4	2.3	5.6	3.8	8.7	0.1	0.3	4.8
South Atlantic Division:														
Maryland	E1	32	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Virginia	-	29	7	1.0	9.8	0.8	1.5	5.5	13.4	20.0	33.9	(D)	BB	(D)
North Carolina	-	33	15	1.3	12.8	1.1	2.2	9.0	23.4	25.7	48.6	(D)	1.6	17.4
South Carolina	-	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Georgia	-	26	5	0.5	5.7	0.3	0.7	3.6	9.5	7.2	16.0	(D)	0.7	11.4
Florida	E2	53	15	1.0	10.3	0.8	1.5	6.9	16.4	10.8	26.9	0.4	1.3	16.5
East South Central Division:														
Kentucky	-	17	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Tennessee	E1	28	5	0.8	5.6	0.6	1.3	4.3	8.8	14.4	23.2	(D)	1.0	12.2
Alabama	E2	10	3	0.2	1.8	0.1	0.2	1.1	3.0	3.7	6.8	(D)	(NA)	(NA)
Mississippi	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Louisiana	-	13	1	0.2	1.5	0.1	0.3	1.0	4.1	3.2	7.1	(D)	0.2	1.7
Oklahoma	-	19	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Texas	E2	90	23	1.5	17.7	1.2	2.3	11.4	37.5	18.9	56.0	1.5	EE	(D)
Mountain Division:														
Colorado	-	29	8	0.5	7.1	0.4	0.8	4.7	12.1	7.1	19.0	(D)	BB	(D)
Arizona	E1	19	2	0.2	2.0	0.1	0.3	1.3	3.8	2.6	6.3	(D)	0.2	3.9
Utah	E1	17	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Pacific Division:														
Washington	-	31	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Oregon	-	25	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
California	E1	256	57	3.4	50.9	2.7	5.4	37.1	87.2	54.8	140.6	1.7	FF	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2542, METAL PARTITIONS AND FIXTURES														
United States	-	**536**	**272**	**28.0**	**322.2**	**21.3**	**40.5**	**213.2**	**589.7**	**630.2**	**1 303.0**	**36.5**	**26.2**	**412.4**
New England Division:														
Massachusetts	-	12	6	0.4	5.5	0.3	0.6	3.2	10.1	9.4	19.4	(D)	0.5	6.4
Middle Atlantic Division:														
New York	E1	105	32	2.8	30.4	2.2	4.2	20.2	59.2	53.5	112.0	3.7	3.2	45.3
New Jersey	-	33	20	1.3	13.3	1.0	1.7	9.0	29.3	23.9	51.9	(D)	EE	(D)
Pennsylvania	-	37	25	2.9	34.4	2.1	4.2	24.3	83.1	67.9	150.3	5.9	EE	(D)
East North Central Division:														
Ohio	-	34	18	3.1	42.9	2.5	4.6	31.8	83.7	75.6	157.3	2.8	2.9	50.8
Indiana	-	10	9	1.1	11.3	0.8	1.6	7.4	24.2	21.6	44.5	1.2	1.0	17.7
Illinois	-	50	26	3.7	47.3	2.7	5.4	30.8	103.7	98.1	200.6	5.8	3.9	65.3
Michigan	-	30	18	1.9	23.1	1.6	2.9	16.1	44.7	48.7	92.5	(D)	1.6	25.1
Wisconsin	-	5	3	0.2	2.3	0.1	0.3	1.4	5.0	6.5	11.6	(D)	(NA)	(NA)
West North Central Division:														
Minnesota	-	11	5	0.7	9.0	0.5	1.0	5.1	20.6	11.2	31.7	(D)	1.0	16.7
Missouri	-	8	4	0.4	4.5	0.3	0.7	2.9	8.2	5.3	13.9	(D)	CC	(D)
Nebraska	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Kansas	-	7	3	0.3	3.2	0.2	0.4	2.1	6.2	5.5	11.1	(D)	AA	(D)
South Atlantic Division:														
North Carolina	-	5	4	0.4	3.4	0.3	0.5	1.9	7.1	3.0	9.5	(D)	0.2	3.0
South Carolina	E4	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	-	13	8	0.6	6.5	0.5	1.0	4.1	15.8	15.0	29.9	(D)	0.3	1.7
Florida	E3	16	7	0.3	2.9	0.2	0.4	1.8	6.0	5.4	11.2	0.1	0.2	2.5
East South Central Division:														
Tennessee	E1	7	5	0.7	6.3	0.5	0.9	4.3	19.6	16.6	36.0	(D)	0.5	7.8
Alabama	-	7	4	0.6	4.6	0.4	0.8	2.7	8.9	10.5	19.1	(D)	0.5	6.5
Mississippi	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Arkansas	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Oklahoma	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas	-	15	9	0.9	10.3	0.7	1.2	5.9	20.5	27.1	47.3	2.3	CC	(D)
Pacific Division:														
Oregon	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California	-	82	40	2.4	27.6	1.9	3.7	17.5	54.3	51.5	104.2	1.8	EE	(D)
INDUSTRY 2591, DRAPERY HARDWARE AND BLINDS AND SHADES														
United States	-	**456**	**85**	**13.6**	**145.6**	**10.3**	**20.0**	**99.1**	**345.0**	**331.6**	**675.1**	**16.7**	**12.1**	**198.2**
New England Division:														
Rhode Island	-	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Connecticut	-	10	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Middle Atlantic Division:														
New York	E2	84	12	1.0	9.9	0.8	1.5	6.7	20.9	20.6	41.2	0.7	1.1	12.5
New Jersey	-	24	4	0.9	15.2	0.8	2.5	12.0	20.6	21.4	41.1	(D)	0.5	6.8
Pennsylvania	-	19	3	0.2	1.7	0.1	0.2	1.0	3.3	3.4	6.7	(D)	0.2	3.0
East North Central Division:														
Illinois	-	25	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Michigan	-	13	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Wisconsin	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Atlantic Division:														
Maryland	-	7	3	1.0	6.6	0.7	1.2	5.2	11.2	24.8	37.6	(D)	EE	(D)
Virginia	E2	10	3	0.2	1.8	0.2	0.3	1.2	3.8	3.8	7.6	(D)	AA	(D)
Georgia	-	11	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Florida	E1	29	4	0.2	2.1	0.2	0.4	1.5	4.2	6.2	10.2	0.2	AA	(D)
East South Central Division:														
Kentucky	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Tennessee	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Texas	E1	38	5	0.4	3.1	0.3	0.5	2.1	7.5	7.6	14.9	0.3	0.2	4.6
Mountain Division:														
Utah	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	-	67	14	2.0	19.4	1.6	3.0	12.9	39.1	39.2	75.5	2.0	1.2	16.1

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2599, FURNITURE AND FIXTURES, N.E.C.														
United States	-	**541**	**195**	**18.1**	**201.4**	**13.7**	**27.0**	**131.0**	**401.9**	**310.1**	**705.2**	**12.0**	**14.5**	**211.7**
New England Division:														
Massachusetts	E1	11	5	0.4	4.7	0.3	0.6	3.5	8.0	4.9	12.7	(D)	0.3	4.7
Connecticut	-	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Middle Atlantic Division:														
New York	-	59	18	1.7	18.7	1.3	2.5	12.2	35.6	32.2	67.7	(D)	1.5	21.3
New Jersey	-	29	12	0.9	10.7	0.6	1.2	6.5	20.0	12.8	32.7	(D)	CC	(D)
Pennsylvania	-	23	9	0.8	8.7	0.6	1.0	5.8	16.2	14.1	29.8	0.9	CC	(D)
East North Central Division:														
Ohio	-	14	5	0.5	4.8	0.4	0.7	3.0	8.8	7.5	16.4	(D)	BB	(D)
Indiana	-	13	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois	-	35	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Michigan	-	20	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Wisconsin	-	20	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West North Central Division:														
Minnesota	-	10	5	0.5	3.9	0.3	0.5	2.2	7.5	5.6	13.0	0.4	(NA)	(NA)
Missouri	-	20	13	1.1	12.4	0.9	1.7	8.1	25.0	18.4	42.8	(D)	EE	(D)
Kansas	-	10	2	0.2	1.8	0.1	0.2	1.2	3.6	2.0	5.5	(D)	(NA)	(NA)
South Atlantic Division:														
Maryland	-	9	4	0.4	3.6	0.3	0.6	2.8	7.0	5.3	11.1	0.1	(NA)	(NA)
Virginia	-	5	2	0.2	2.6	0.2	0.3	2.0	3.7	3.3	7.0	(D)	BB	(D)
North Carolina	E2	12	3	0.2	1.3	0.1	0.3	0.9	2.1	2.2	4.2	(D)	AA	(D)
Georgia	E1	15	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Florida	-	32	6	1.3	13.3	0.9	1.7	8.8	31.6	24.8	56.8	0.5	EE	(D)
East South Central Division:														
Tennessee	-	12	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West South Central Division:														
Texas	-	26	10	0.5	5.9	0.4	0.9	3.7	10.6	6.8	17.1	0.4	BB	(D)
Mountain Division:														
Colorado	-	9	3	0.2	1.3	0.1	0.3	1.0	2.1	3.0	5.4	0.1	(NA)	(NA)
Pacific Division:														
Washington	-	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California	-	90	29	2.3	27.3	1.8	4.1	18.3	52.3	43.0	94.2	1.4	2.1	31.9

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Wood office furniture (SIC 2521)	Metal office furniture (SIC 2522)	Public building and related furniture (SIC 2531)	Wood partitions and fixtures (SIC 2541)	Metal partitions and fixtures (SIC 2542)	Drapery hardware and blinds and shades (SIC 2591)	Furnitures and fixtures, n.e.c. (SIC 2599)
Primary product specialization ratio[1]	percent	85	94	88	92	89	95	87
Coverage ratio[2]	do	90	92	87	88	91	96	82
All establishments	number	331	192	420	1 598	536	456	541
With 1 to 19 employees	do	212	78	235	1 204	264	371	346
With 20 to 99 employees	do	75	47	126	338	191	63	156
With 100 employees or more	do	44	67	59	56	81	22	39
All employees, average for year	1,000	16.0	29.0	20.0	29.4	28.0	13.6	18.1
Payroll for year, all employees	mil. dol.	165.0	377.6	214.3	352.9	322.2	145.6	201.4
Production workers:								
Average for year	1,000	12.8	22.3	15.0	23.0	21.3	10.3	13.7
March	do	12.2	21.3	14.5	22.4	20.4	9.8	13.0
May	do	12.5	22.0	14.4	22.5	20.8	10.2	13.4
August	do	13.0	22.5	15.5	24.0	21.9	10.4	14.1
November	do	13.5	23.2	15.6	23.2	22.1	10.9	14.2
Hours	millions	25.5	43.6	29.2	45.3	40.5	20.0	27.0
January to March	do	6.0	10.4	6.8	10.7	9.4	4.5	5.9
April to June	do	6.4	11.0	7.2	11.2	10.7	4.9	6.9
July to September	do	6.3	10.8	7.6	12.1	10.1	5.1	7.0
October to December	do	6.7	11.4	7.5	11.3	10.3	5.4	7.2
Wages	mil. dol.	110.2	265.7	132.9	241.0	213.2	99.1	131.0
Cost of materials, etc.	do	239.0	553.2	381.8	496.1	630.2	331.6	310.1
Materials, parts, containers, etc., consumed	do	224.1	487.6	318.5	421.6	552.7	290.0	255.2
Resales	do	6.8	41.0	45.1	41.6	32.9	34.5	39.5
Fuels consumed	do	2.3	7.8	4.3	4.0	9.1	2.5	3.3
Purchased electric energy	do	4.1	9.8	6.1	7.0	9.7	3.4	4.1
Contract work	do	1.7	7.0	7.8	21.9	25.8	1.3	8.0
Value of shipments, including resales	do	612.0	1 397.4	787.4	1 105.8	1 303.0	675.1	705.2
Value of resales	do	8.9	59.3	55.0	51.0	41.0	48.6	47.6
Value added by manufacture	do	381.3	854.8	414.9	621.4	689.7	345.0	401.9
Manufacturers' inventories:								
Beginning of year	do	88.4	211.1	122.0	141.8	209.4	106.4	110.1
Finished products	do	17.8	46.5	25.3	35.5	62.5	38.0	24.5
Work in process	do	27.6	66.6	40.6	43.9	50.5	24.1	31.7
Materials, supplies, fuel, etc.	do	43.0	98.1	56.2	62.3	96.3	44.3	53.9
End of year	do	107.1	237.2	138.3	158.2	236.5	115.6	120.1
Finished products	do	20.0	48.0	29.4	41.4	68.4	34.3	26.0
Work in process	do	33.8	77.7	45.8	49.8	61.5	29.4	37.0
Materials, supplies, fuel, etc.	do	53.3	113.5	63.1	67.0	106.5	52.0	57.1
Capital expenditures for plant and equipment	do	26.2	42.7	23.8	24.2	39.2	17.4	13.9
New capital expenditures	do	26.5	41.1	22.3	22.4	36.5	16.7	12.0
New buildings and other structures	do	12.4	11.4	6.8	7.4	12.0	5.8	3.3
New machinery and equipment	do	14.1	29.7	15.5	15.0	24.5	10.9	8.6
Used capital expenditures	do	1.6	1.6	1.5	1.9	2.7	0.7	1.9

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Wood office furniture (SIC 2521)		Metal office furniture (SIC 2522)		Public building and related furniture (SIC 2531)		Wood partitions and fixtures (SIC 2541)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	1.5	11	1.5	10	1.1	14	(1.1)	26
Response coverage ratio[2] (percent)	67.1	(X)	70.7	(X)	60.2	(X)	58.7	(X)
Machinery	2.2	13	6.1	5	3.8	7	(3.4)	19
Response coverage ratio[2] (percent)	66.7	(X)	78.7	(X)	50.3	(X)	53.9	(X)
Cost of purchased communication services	1.3	28	3.9	4	(3.6)	15	(3.4)	17
Response coverage ratio[2] (percent)	51.0	(X)	81.0	(X)	61.9	(X)	56.1	(X)
Rental payments	4.4	11	10.3	4	(12.9)	25	14.2	9
Buildings and other structures	3.3	12	4.9	6	(8.7)	39	11.6	10
Machinery and equipment	(1.1)	30	5.3	3	(4.3)	15	(2.6)	19
Supplemental labor costs	27.1	3	81.8	1	35.9	5	53.8	4
Legal costs	13.9	3	34.4	1	18.1	4	29.0	4
Voluntary costs	13.3	4	47.4	1	17.8	7	24.8	5
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	54.3	7	169.5	2	(50.1)	17	68.0	9
New capital expenditures	11.6	11	11.4	4	(8.2)	31	6.0	15
Used capital expenditures	0.8	1	0.6	1	1.1	2	(0.2)	(A)
Retirements	(0.7)	31	3.5	6	(2.7)	50	(4.7)	25
End of year	66.0	5	177.9	2	56.7	13	69.6	9
Machinery and equipment:								
Beginning of year	59.6	4	201.8	2	102.0	9	95.9	6
New capital expenditures	14.3	11	28.1	2	(18.3)	16	15.0	10
Automobiles, trucks, etc., for highway use[3]	(0.3)	(A)	(0.7)	(A)	(0.9)	(A)	(1.8)	(A)
Computers and peripheral data processing equipment[3]	(0.1)	(A)	(1.1)	(A)	(1.3)	(A)	(0.4)	(A)
All other[3]	(5.5)	(A)	(21.9)	91	(12.2)	(A)	(8.4)	(A)
New machinery and equipment, n.s.k[4]	(8.4)	(A)	(4.5)	(A)	(3.9)	(A)	(4.4)	(A)
Used capital expenditures	0.7	1	0.9	1	(0.7)	49	(1.7)	33
Retirements	2.3	11	8.1	11	(7.3)	15	(5.9)	18
End of year	72.2	3	222.7	2	113.8	7	106.7	4
Total gross value of depreciable assets:								
Beginning of year	113.9	5	371.3	2	152.1	11	164.1	6
New capital expenditures	25.8	10	39.5	3	(26.5)	15	21.0	10
Used capital expenditures	1.5	1	1.5	1	(1.9)	20	(1.9)	44
Retirements	(3.0)	15	11.7	8	(10.0)	24	(10.5)	17
End of year	138.8	3	400.6	2	170.5	9	176.5	5
Depreciation charges during 1977	8.5	4	27.3	2	12.5	6	14.2	6
Buildings and other structures	2.3	6	7.3	2	2.6	11	3.2	10
Machinery and equipment	6.1	5	20.0	2	9.9	5	11.0	6

See footnotes at end of table.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977—Con.

(For explanation of terms, see appendix A) For description of annual survey of manufactures (ASM), see appendix B)

Item	Metal partitions and fixtures (SIC 2542)		Drapery hardware and blinds and shades (SIC 2591)		Furniture and fixtures, n.e.c. (SIC 2599)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:						
Cost of purchased services for repair of--						
Buildings and other structures	(1.6)	18	(1.4)	19	(1.0)	29
Response coverage ratio[2] (percent)	61.2	(X)	72.8	(X)	59.9	(X)
Machinery	6.5	9	(2.7)	21	(1.5)	16
Response coverage ratio[2] (percent)	61.1	(X)	55.2	(X)	66.0	(X)
Cost of purchased communication services	4.2	11	(2.6)	22	(2.2)	15
Response coverage ratio[2] (percent)	53.6	(X)	46.1	(X)	64.3	(X)
Rental payments	13.4	7	5.5	10	(8.6)	15
Buildings and other structures	9.9	9	(2.7)	19	6.6	10
Machinery and equipment	(3.5)	18	(2.8)	18	(2.0)	40
Supplemental labor costs	61.9	4	24.9	2	30.3	3
Legal costs	27.6	3	11.7	3	15.5	3
Voluntary costs	34.3	7	13.2	3	14.8	4
Gross value of depreciable assets:						
Buildings and other structures:						
Beginning of year	112.5	5	29.0	13	27.8	13
New capital expenditures	12.2	7	5.8	9	(4.7)	22
Used capital expenditures	0.7	1	0.5	-	(2.3)	69
Retirements	(6.5)	30	(0.2)	94	(1.5)	16
End of year	118.9	5	35.1	11	33.2	12
Machinery and equipment:						
Beginning of year	206.4	4	50.0	8	64.9	7
New capital expenditures	(28.5)	16	(14.7)	15	(10.1)	16
Automobiles, trucks, etc., for highway use[3]	(1.7)	(A)	0.8	(A)	(1.5)	(A)
Computers and peripheral data processing equipment[3]	(0.9)	(A)	1.4	(A)	(0.1)	(A)
All other[3]	(14.1)	(A)	11.0	(A)	(4.4)	(A)
New machinery and equipment, n.s.k[4]	(11.9)	(A)	1.4	(A)	(4.0)	(A)
Used capital expenditures	(1.8)	22	(0.2)	63	(3.1)	64
Retirements	(6.2)	17	(1.9)	31	2.9	11
End of year	230.6	4	63.0	6	75.2	5
Total gross value of depreciable assets:						
Beginning of year	318.9	4	79.0	9	92.7	8
New capital expenditures	40.8	12	20.5	11	(14.7)	16
Used capital expenditures	(2.5)	17	(0.7)	22	(5.4)	47
Retirements	(12.7)	18	(2.0)	33	4.4	11
End of year	349.4	3	98.2	6	108.4	6
Depreciation charges during 1977	26.4	10	7.9	7	7.9	7
Buildings and other structures	5.2	7	1.7	9	(1.3)	16
Machinery and equipment	21.2	11	6.2	8	6.6	7

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2521, WOOD OFFICE FURNITURE												
Total	-	**331**	**16.0**	**165.0**	**12.8**	**25.5**	**110.2**	**381.3**	**239.0**	**512.0**	**26.5**	**107.1**
Establishments with an average of—												
1 to 4 employees	E5	99	0.1	1.3	0.1	0.2	0.9	6.4	1.8	8.4	0.1	0.9
5 to 9 employees	E8	60	0.4	3.8	0.4	0.6	2.8	6.7	4.8	11.5	0.3	2.3
10 to 19 employees	E5	53	0.7	7.2	0.6	1.1	5.3	13.5	8.6	21.9	0.5	3.6
20 to 49 employees	-	49	1.7	17.3	1.4	2.7	12.7	35.3	26.9	61.8	1.7	10.5
50 to 99 employees	-	26	1.8	17.0	1.5	2.9	12.3	30.5	26.5	56.3	2.2	11.1
100 to 249 employees	-	30	4.5	42.7	3.7	7.2	29.2	81.2	61.7	139.9	2.5	26.2
250 to 499 employees	-	10	3.5	36.4	2.8	5.6	23.0	84.0	60.4	141.9	4.5	24.3
500 to 999 employees	-	2	(3.2)	(39.2)	(2.4)	(5.1)	(24.1)	(123.8)	(48.4)	(170.3)	(14.8)	(28.3)
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	163	0.9	8.1	0.7	1.3	5.7	14.3	10.7	25.0	0.4	5.2
INDUSTRY 2522, METAL OFFICE FURNITURE												
Total	-	**192**	**29.0**	**377.6**	**22.3**	**43.6**	**265.7**	**854.8**	**553.2**	**1 397.4**	**41.1**	**237.2**
Establishments with an average of—												
1 to 4 employees	E9	35	0.1	0.8	0.1	0.1	0.5	0.7	1.2	2.9	0.1	0.5
5 to 9 employees	E6	14	0.1	1.1	0.1	0.1	0.8	2.7	2.0	4.7	0.1	0.7
10 to 19 employees	E5	29	0.4	4.8	0.3	0.6	3.1	9.9	7.3	17.1	0.4	3.2
20 to 49 employees	E1	23	0.8	7.7	0.6	1.2	5.7	16.0	14.1	29.7	0.8	5.0
50 to 99 employees	-	24	1.7	16.1	1.4	2.6	11.3	38.0	25.5	63.0	1.4	9.4
100 to 249 employees	-	40	6.0	61.2	4.8	9.2	44.5	145.9	108.3	249.2	7.3	44.0
250 to 499 employees	-	12	4.2	48.3	3.3	6.6	35.4	133.9	101.1	233.6	(31.1)	35.3
500 to 999 employees	-	11	7.4	93.3	5.4	10.6	62.8	210.7	131.8	335.6	(D)	71.7
1,000 to 2,499 employees	-	3	(8.4)	(144.3)	(6.3)	(12.6)	(101.7)	(297.0)	(161.9)	(461.6)	(D)	(67.3)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	57	0.3	4.1	0.3	0.5	2.8	8.1	5.9	13.9	0.4	2.6
INDUSTRY 2531, PUBLIC BUILDING AND RELATED FURNITURE												
Total	-	**420**	**20.0**	**214.3**	**15.0**	**29.2**	**132.9**	**414.9**	**381.8**	**787.4**	**22.3**	**138.3**
Establishments with an average of—												
1 to 4 employees	E8	117	0.2	2.1	0.2	0.3	1.3	3.7	4.2	8.3	0.1	1.3
5 to 9 employees	E7	54	0.4	3.9	0.3	0.5	2.5	7.2	7.2	14.3	0.3	2.2
10 to 19 employees	E2	64	0.9	8.8	0.7	1.3	5.9	15.0	14.4	29.4	0.6	4.5
20 to 49 employees	E1	85	2.8	27.9	2.2	4.1	18.8	47.4	47.1	94.1	2.0	14.7
50 to 99 employees	-	41	2.8	28.1	2.1	4.1	17.5	50.1	43.3	92.7	2.0	17.7
100 to 249 employees	-	43	6.7	69.4	5.0	10.0	44.5	149.3	140.1	286.7	10.1	40.7
250 to 499 employees	-	14	(6.3)	(74.1)	(4.6)	(8.9)	(42.4)	(142.4)	(125.6)	(261.9)	(7.2)	(57.1)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	160	0.7	7.7	0.6	1.0	4.8	13.5	14.5	28.0	0.5	4.5
INDUSTRY 2541, WOOD PARTITIONS AND FIXTURES												
Total	**E1**	**1 598**	**29.4**	**352.9**	**23.0**	**45.3**	**241.0**	**621.4**	**496.1**	**1 105.8**	**22.4**	**158.2**
Establishments with an average of—												
1 to 4 employees	E8	666	1.1	13.2	1.1	1.8	8.8	25.6	19.6	45.6	3.4	5.3
5 to 9 employees	E3	273	1.8	22.8	1.4	2.9	15.4	41.7	32.2	73.6	1.4	7.5
10 to 19 employees	E1	265	3.6	42.5	2.8	5.4	28.7	71.7	53.1	123.9	1.9	12.9
20 to 49 employees	-	261	7.9	101.2	6.2	12.1	70.1	169.0	127.7	294.3	5.8	30.9
50 to 99 employees	-	77	5.3	68.6	4.1	8.5	46.9	126.8	98.1	222.3	3.9	30.7
100 to 249 employees	-	48	6.8	76.5	5.2	10.2	52.8	140.6	117.8	253.6	(6.0)	52.7
250 to 499 employees	-	6	(2.7)	(28.1)	(2.1)	(4.4)	(18.4)	(45.9)	(47.6)	(92.5)	(D)	(18.2)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	627	1.4	16.2	1.3	2.2	10.8	29.8	24.1	53.9	1.0	6.7
INDUSTRY 2542, METAL PARTITIONS AND FIXTURES												
Total	-	**536**	**28.0**	**322.2**	**21.3**	**40.5**	**213.2**	**689.7**	**630.2**	**1 303.0**	**38.5**	**236.5**
Establishments with an average of—												
1 to 4 employees	E9	123	0.2	2.5	0.2	0.3	1.6	5.2	4.3	9.7	0.2	1.8
5 to 9 employees	E6	80	0.5	6.3	0.4	0.8	4.1	12.6	10.5	23.1	0.4	4.0
10 to 19 employees	E2	61	0.9	9.1	0.6	1.1	5.8	18.0	15.9	33.7	1.6	4.8
20 to 49 employees	E1	121	3.9	44.7	2.9	5.4	27.6	88.4	80.8	167.5	3.7	25.6
50 to 99 employees	-	70	4.8	49.0	3.7	7.0	31.6	105.2	90.5	192.6	7.7	34.5
100 to 249 employees	-	62	10.0	114.8	7.5	14.0	73.3	240.5	220.1	451.7	13.2	86.8
250 to 499 employees	-	15	5.1	61.1	4.0	8.1	46.5	150.7	140.5	289.2	8.4	49.5
500 to 999 employees	-	4	2.7	34.6	2.0	3.8	22.7	69.1	67.7	135.6	1.4	29.5
Covered by administrative records[2]	E0	174	0.7	7.8	0.5	1.0	5.0	15.9	13.5	29.4	0.5	5.5
INDUSTRY 2591, DRAPERY HARDWARE AND BLINDS AND SHADES												
Total	-	**456**	**13.6**	**145.6**	**10.3**	**20.0**	**99.1**	**345.0**	**331.6**	**675.1**	**16.7**	**115.6**
Establishments with an average of—												
1 to 4 employees	E7	241	0.4	4.0	0.4	0.6	2.7	10.0	9.5	19.5	0.4	3.2
5 to 9 employees	E3	80	0.5	5.1	0.4	0.7	3.4	10.8	10.1	20.7	0.4	3.5
10 to 19 employees	E1	50	0.7	6.3	0.5	0.8	3.8	13.6	15.1	28.3	0.4	3.6
20 to 49 employees	E1	42	1.3	11.0	1.0	1.7	6.9	23.2	27.0	50.5	0.9	7.3
50 to 99 employees	-	21	1.6	14.7	1.3	2.2	9.3	33.0	34.2	65.7	4.4	11.6
100 to 249 employees	-	9	1.4	13.2	1.2	2.2	10.0	41.4	36.4	76.3	1.9	16.5
250 to 499 employees	-	5	1.7	16.6	1.3	2.5	11.4	46.0	38.7	87.3	2.0	13.0
500 to 999 employees	-	7	(6.1)	(74.7)	(4.4)	(9.2)	(51.7)	(166.9)	(160.7)	(326.8)	(6.4)	(56.9)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	221	0.4	3.8	0.4	0.6	2.5	9.5	8.9	18.4	0.4	3.3

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2599, FURNITURE AND FIXTURES, N.E.C.												
Total	-	**541**	**18.1**	**201.4**	**13.7**	**27.0**	**131.0**	**401.9**	**310.1**	**705.2**	**12.0**	**120.1**
Establishments with an average of—												
1 to 4 employees	E7	174	0.3	3.8	0.3	0.4	2.3	7.5	5.5	13.3	0.2	2.5
5 to 9 employees	E3	80	0.6	6.5	0.4	0.8	4.0	12.9	10.2	23.0	0.4	3.4
10 to 19 employees	E1	92	1.3	15.6	1.0	1.9	9.9	30.7	21.3	50.6	0.7	7.4
20 to 49 employees	-	95	3.0	35.0	2.3	5.2	23.5	69.7	52.8	120.4	2.4	18.3
50 to 99 employees	-	51	4.3	47.9	3.4	6.7	32.4	86.2	76.5	162.6	2.7	25.4
100 to 249 employees	-	31	4.9	50.0	3.7	7.0	33.7	99.1	71.6	167.8	3.3	32.3
250 to 499 employees	-	6	(3.6)	(42.7)	(2.5)	(4.9)	(25.1)	(95.8)	(72.2)	(167.5)	(2.3)	(30.8)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	159	0.5	5.6	0.4	0.7	3.5	10.7	8.8	19.4	0.4	3.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2521	**Wood office furniture:**										
	Entire industry	331	16.0	165.0	12.8	25.5	110.2	381.3	239.0	612.0	26.5
	Establishments with 75 percent specialization or more	304	13.2	131.1	10.8	21.4	92.0	249.4	183.3	426.6	9.1
2522	**Metal office furniture:**										
	Entire industry	192	29.0	377.6	22.3	43.6	265.7	854.8	553.2	1 397.4	41.1
	Establishments with 75 percent specialization or more	169	25.3	337.5	19.4	38.2	237.2	763.1	491.4	1 245.7	39.4
25221	Metal office seating, including upholstered:										
	Establishments with this product class primary	32	10.9	165.6	8.4	16.8	119.2	395.2	240.5	632.8	20.4
	Establishments with 75 percent specialization or more in class	22	2.8	27.8	2.2	4.4	20.1	72.0	63.5	135.1	(D)
25222	Metal office desks:										
	Establishments with this product class primary	15	4.5	61.3	3.5	6.9	42.9	121.4	74.0	197.1	5.5
	Establishments with 75 percent specialization or more in class	4	0.5	4.9	0.4	0.7	3.5	10.8	7.1	17.3	(D)
25223	Metal office filing cabinets and cases:										
	Establishments with this product class primary	51	11.5	127.6	8.7	16.6	87.4	288.5	203.8	482.6	12.9
	Establishments with 75 percent specialization or more in class	24	4.3	46.5	3.3	6.2	32.0	112.9	85.4	196.3	6.3
25224	Other metal office furniture:										
	Establishments with this product class primary	18	1.4	13.9	1.1	2.1	10.0	31.9	21.1	52.5	1.4
	Establishments with 75 percent specialization or more in class	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2531	**Public building and related furniture:**										
	Entire industry	420	20.0	214.3	15.0	29.2	132.9	414.9	381.8	787.4	22.3
	Establishments with 75 percent specialization or more	372	15.8	162.4	12.1	23.4	103.6	326.1	302.8	621.9	17.7
25311	School furniture, except stone and concrete:										
	Establishments with this product class primary	52	5.2	51.8	3.9	7.5	31.5	105.1	94.0	195.5	5.2
	Establishments with 75 percent specialization or more in class	33	3.2	30.2	2.3	4.5	18.6	60.6	50.5	109.6	(D)
25312	Public building and related furniture, except school:										
	Establishments with this product class primary	154	13.0	144.3	9.7	19.2	89.9	278.1	255.2	527.1	15.9
	Establishments with 75 percent specialization or more in class	114	8.2	84.7	6.4	12.7	57.2	164.0	147.6	306.6	8.3
2541	**Wood partitions and fixtures:**										
	Entire industry	1 598	29.4	352.9	23.0	45.3	241.0	621.4	496.1	1 105.8	22.4
	Establishments with 75 percent specialization or more	1 483	24.3	296.4	19.1	37.4	203.4	520.5	397.2	906.4	16.5
25411	Wood partitions, shelving, and lockers:										
	Establishments with this product class primary	36	1.8	18.7	1.4	2.6	11.5	42.6	43.4	85.2	1.3
	Establishments with 75 percent specialization or more in class	24	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
25412	Plastics laminated fixture tops:										
	Establishments with this product class primary	238	5.8	59.9	4.6	8.9	41.3	105.4	107.4	211.7	5.6
	Establishments with 75 percent specialization or more in class	195	4.3	43.0	3.4	6.6	29.3	71.8	80.9	152.1	4.9
25413	Wood fixtures for stores, banks, offices, etc.:										
	Establishments with this product class primary	412	16.9	218.5	13.0	26.2	150.3	373.3	267.5	631.4	9.3
	Establishments with 75 percent specialization or more in class	319	12.5	165.2	9.7	19.5	114.7	288.6	189.1	468.0	6.7
2542	**Metal partitions and fixtures:**										
	Entire industry	536	28.0	322.2	21.3	40.5	213.2	689.7	630.2	1 303.0	36.5
	Establishments with 75 percent specialization or more	490	23.6	271.9	17.9	33.9	180.4	571.7	526.3	1 082.3	30.1
25421	Metal partitions:										
	Establishments with this product class primary	26	2.0	22.5	1.5	2.7	15.6	44.2	39.8	83.0	1.3
	Establishments with 75 percent specialization or more in class	22	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
25422	Metal shelving and lockers:										
	Establishments with this product class primary	68	7.7	93.9	5.8	11.4	63.3	213.1	199.2	406.8	17.7
	Establishments with 75 percent specialization or more in class	50	5.3	65.8	4.0	7.6	44.4	145.8	135.3	276.2	12.7
25423	Metal storage racks and accessories:										
	Establishments with this product class primary	68	5.4	63.4	4.3	8.2	44.7	142.6	145.5	282.7	5.5
	Establishments with 75 percent specialization or more in class	56	4.6	54.9	3.7	7.0	39.0	125.4	126.0	246.6	4.4
25424	Metal fixtures for stores, banks, offices, etc.:										
	Establishments with this product class primary	125	10.4	114.5	7.7	14.7	72.1	235.0	203.7	434.1	9.4
	Establishments with 75 percent specialization or more in class	99	7.5	79.5	5.6	10.8	52.0	156.3	133.5	286.5	6.9
2591	**Drapery hardware and blinds and shades:**										
	Entire industry	456	13.6	145.6	10.3	20.0	99.1	345.0	331.6	675.1	16.7
	Establishments with 75 percent specialization or more	440	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
25913	Window shades and accessories:										
	Establishments with this product class primary	53	2.5	28.9	2.0	3.6	21.2	72.7	79.9	153.4	1.2
	Establishments with 75 percent specialization or more in class	36	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
25914	Venetian blinds:										
	Establishments with this product class primary	52	1.9	24.2	1.6	3.8	17.7	39.0	42.2	79.4	(D)
	Establishments with 75 percent specialization or more in class	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
25915	Other shades and blinds, n.e.c., and drapery hardware:										
	Establishments with this product class primary	59	7.7	79.6	5.6	10.6	51.5	202.5	181.0	383.0	9.4
	Establishments with 75 percent specialization or more in class	45	7.2	75.2	5.2	9.8	48.5	191.5	171.0	361.5	8.7
2599	**Furniture and fixtures, n.e.c.:**										
	Entire industry	541	18.1	201.4	13.7	27.0	131.0	401.9	310.1	705.2	12.0
	Establishments with 75 percent specialization or more	482	13.5	149.7	10.3	20.6	100.5	294.2	247.3	535.7	8.9

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2521	Wood office furniture.....1977..	612.0	506.6	91.6	13.8	85	562.2	506.6	55.6	90
	1972..	249.7	217.2	23.9	8.6	90	259.1	217.2	41.9	84
	1967..	158.4	136.0	16.8	5.6	89	158.1	136.0	22.1	86
2522	Metal office furniture.....1977..	1,397.4	1,244.8	85.7	66.9	94	1,353.0	1,244.8	108.2	92
	1972..	861.5	705.5	81.0	75.0	90	789.1	705.5	83.6	89
	1967..	622.9	517.6	65.8	39.6	89	586.1	517.6	68.5	88
2531	Public building and related furniture.....1977..	787.4	631.8	85.2	70.4	88	724.7	631.8	92.9	87
	1972..	535.3	421.6	69.8	43.9	86	485.2	421.6	63.6	87
	1967..	421.2	333.2	65.8	22.2	84	389.7	333.2	56.5	86
2541	Wood partitions and fixtures.....1977..	1,105.8	945.0	80.7	80.1	92	1,070.8	945.0	125.3	88
	1972..	793.2	686.0	56.9	50.3	92	772.1	686.0	86.1	89
	1967..	498.6	433.2	31.6	33.8	93	484.4	433.2	51.2	89
2542	Metal partitions and fixtures.....1977..	1,303.0	1,110.6	130.7	61.7	89	1,215.8	1,110.6	105.2	91
	1972..	734.5	617.5	71.4	45.6	90	713.2	617.5	95.7	86
	1967..	512.0	428.8	50.1	33.1	90	512.2	428.8	83.4	84
2591	Drapery hardware and blinds and shades.....1977..	675.1	590.1	31.2	53.8	95	615.3	590.1	25.2	96
	1972..	364.5	299.2	34.5	30.8	90	311.3	299.2	12.1	96
	1967..	246.8	195.2	23.2	28.4	89	207.0	195.2	11.8	94
2599	Furniture and fixtures, n.e.c.....1977..	705.2	560.9	84.2	60.1	87	687.4	560.9	126.5	82
	1972..	372.0	302.0	39.5	30.5	87	379.9	302.0	77.9	79
	1967..	179.0	144.5	22.5	11.8	87	193.8	144.5	49.3	75

n.e.c. Not elsewhere classified.

Table 5c. Industry-Product Analysis—Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Wood office furniture (SIC 2521)	Metal office furniture (SIC 2522)	Public building and related furniture (SIC 2531)	Wood partitions and fixtures (SIC 2541)	Metal partitions and fixtures (SIC 2542)	Drapery hardware and blinds and shades (SIC 2591)	Furniture and fixtures, n.e.c. (SIC 2599)	Other industries
	Total	(X)	612.0	1,397.4	787.4	1,105.8	1,303.0	675.1	705.2	(X)
	Primary products	(X)	506.6	1,244.8	631.8	945.0	1,110.6	590.1	560.9	(X)
	Secondary products	(X)	91.6	85.7	85.2	80.7	130.7	31.2	84.2	(X)
	Miscellaneous receipts	(X)	13.8	66.9	70.4	80.1	61.7	53.8	60.1	(X)
25210	Wood office furniture	562.2	506.6	25.0	2.0	3.1	(D)	-	(D)	24.2
2522-	Metal office furniture	1,353.0	33.8	1,244.8	10.6	(D)	17.2	-	(D)	44.6
25221	Metal office seating, including upholstered	388.1	32.0	340.6	(D)	(D)	-	-	(D)	9.1
25222	Metal office desks	230.7	(D)	228.7	(D)	(D)	(D)	-	-	(D)
25223	Metal office filing cabinets and cases	467.0	(D)	439.5	(D)	(D)	(D)	-	-	23.8
25224	Other metal office furniture	233.7	(D)	203.3	4.7	(D)	12.6	-	(D)	10.9
25220	Metal office furniture, n.s.k	33.5	(D)	32.7	(D)	-	-	-	-	(D)
2531-	Public building and related furniture	724.7	5.3	(D)	631.7	7.7	3.9	(D)	10.9	63.5
25311	School furniture, except stone and concrete	185.4	2.4	(D)	168.7	3.7	(D)	-	3.8	(D)
25312	Public building and related furniture, except school	479.5	(D)	(D)	404.6	3.8	(D)	-	6.6	57.8
25310	Public building and related furniture, n.s.k	59.8	(D)	-	58.4	.2	-	(D)	.5	(D)
2541-	Wood partitions and fixtures	1,070.8	31.1	(D)	9.9	945.0	34.7	-	(D)	38.6
25411	Wood partitions, shelving, and lockers	135.6	29.1	(D)	4.9	75.7	(D)	-	(D)	13.4
25412	Plastics laminated fixture tops	204.2	(D)	-	.6	188.0	(D)	-	(D)	(D)
25413	Wood fixtures for stores, banks, offices, etc	561.1	(D)	(D)	4.4	512.3	28.5	-	2.3	12.3
25410	Wood partitions and fixtures, n.s.k	169.9	-	-	-	169.0	-	-	(D)	(D)
2542-	Metal partitions and fixtures	1,215.8	-	13.9	(D)	13.9	1,110.6	(D)	6.5	65.6
25421	Metal partitions	96.7	-	(D)	(D)	(D)	77.0	-	(D)	15.0
25422	Metal shelving and lockers	349.4	-	(D)	2.0	(D)	323.5	-	1.9	14.1
25423	Metal storage racks and accessories	275.6	-	(D)	.5	(D)	260.7	-	(D)	(D)
25424	Metal fixtures for stores, banks, offices, etc	391.0	-	(D)	(D)	11.1	348.7	(D)	(D)	22.0
25420	Metal partitions and fixtures, n.s.k	103.1	-	-	-	-	100.7	(D)	-	(D)
2591-	Drapery hardware and blinds and shades	615.3	-	-	-	(D)	(D)	590.1	(D)	(D)
25913	Window shades and accessories	140.3	-	-	-	(D)	(D)	(D)	(D)	(D)
25914	Venetian blinds	89.6	-	-	-	-	-	(D)	-	(D)
25915	Other shades and blinds, n.e.c., and drapery hardware	329.7	-	-	-	(D)	(D)	320.9	-	(D)
25910	Drapery hardware and blinds and shades, n.s.k	55.7	-	-	-	-	-	55.4	(D)	(D)
25990	Furniture and fixtures, n.e.c	687.4	1.5	3.7	20.2	(D)	31.1	(D)	560.9	61.3
	Other shipments by 4-digit product group:									
2295-	Coated fabrics, not rubberized	(X)	-	-	-	-	-	(D)	-	(X)
2431-	Millwork	(X)	-	-	.9	(D)	(D)	(D)	(D)	(X)
2434-	Wood kitchen cabinets	(X)	(D)	-	(D)	10.4	-	(D)	(D)	(X)
2435-	Hardwood veneer and plywood	(X)	(D)	-	(D)	(D)	-	-	-	(X)
2441-	Nailed wood boxes and shook	(X)	-	-	-	(D)	-	-	-	(X)
2499-	Wood products, n.e.c	(X)	(D)	-	(D)	(D)	-	-	(D)	(X)
2511-	Wood household furniture	(X)	1.3	(D)	(D)	(D)	(D)	-	(D)	(X)
2512-	Upholstered household furniture	(X)	(D)	-	(D)	(D)	-	-	-	(X)
2514-	Metal household furniture	(X)	(D)	(D)	(D)	-	(D)	-	(D)	(X)
2515-	Mattresses and bedsprings	(X)	(D)	-	(D)	(D)	-	-	(D)	(X)
2517-	Wood TV and radio cabinets	(X)	(D)	-	-	-	-	-	-	(X)
2645-	Die-cut paper and board	(X)	-	(D)	-	-	-	-	-	(X)
3079-	Miscellaneous plastics products	(X)	-	-	(D)	6.5	6.7	(D)	-	(X)
3317-	Steel pipe and tubes	(X)	-	-	(D)	-	-	-	-	(X)
3321-	Gray iron castings	(X)	-	-	(D)	-	-	-	-	(X)
3423-	Hand and edge tools, n.e.c	(X)	-	-	-	-	(D)	-	-	(X)
3441-	Fabricated structural metal	(X)	-	-	-	-	(D)	-	(D)	(X)
3442-	Metal doors, sash, and trim	(X)	-	-	(D)	-	(D)	(D)	(D)	(X)
3444-	Sheet metal work	(X)	-	(D)	(D)	-	(D)	(D)	(D)	(X)
3469-	Metal stampings, n.e.c	(X)	-	-	(D)	-	3.2	-	(D)	(X)
3489-	Ordnance and accessories, n.e.c	(X)	-	(D)	-	-	-	-	-	(X)
3499-	Fabricated metal products, n.e.c	(X)	-	-	(D)	-	(D)	-	-	(X)
3569-	General industrial machinery, n.e.c	(X)	-	-	-	-	(D)	-	(D)	(X)
3841-	Surgical and medical instruments	(X)	-	(D)	(D)	(D)	-	(D)	(D)	(X)
3842-	Surgical appliances and supplies	(X)	(D)	-	-	-	-	-	3.7	(X)
3861-	Photographic equipment and supplies	(X)	-	(D)	-	-	-	-	(D)	(X)
3949-	Sporting and athletic goods, n.e.c	(X)	-	-	(D)	(D)	5.6	(D)	(D)	(X)
3993-	Signs and advertising displays	(X)	-	-	-	(D)	(D)	-	-	(X)

See footnotes at end of table.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977 — Con.

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Wood office furniture (SIC 2521)	Metal office furniture (SIC 2522)	Public building and related furniture (SIC 2531)	Wood partitions and fixtures (SIC 2541)	Metal partitions and fixtures (SIC 2542)	Drapery hardware and blinds and shades (SIC 2591)	Furniture and fixtures, n.e.c. (SIC 2599)	Other industries
	Miscellaneous receipts:									
93000 00	Contract work	(X)	(D)	3.0	3.9	5.1	10.3	(D)	3.7	(X)
99980 13	Sales of scrap and refuse	(X)	(D)	-	(D)	-	(D)	1.1	.1	(X)
99980 31	Receipts for installation (or construction) of products of this establishment	(X)	(D)	2.5	8.0	20.8	7.5	-	4.3	(X)
99980 00	Other miscellaneous receipts, n.s.k.	(X)	(D)	(D)	(D)	1.4	(D)	(D)	.2	(X)
99980 98	Other miscellaneous receipts, including receipts for repair work, etc	(X)	(D)	(D)	3.5	1.8	2.2	3.8	4.0	(X)
99989 00	Resales	(X)	8.9	59.3	55.0	51.0	41.0	48.6	47.6	(X)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2521-	2511 Wood household furniture	13.2
2522-	2514 Metal household furniture	(D)
	3499 Fabricated metal products, n.e.c.	23.6
2531-	2511 Wood household furniture	(D)
	2514 Metal household furniture	(D)
	3079 Miscellaneous plastics products	(D)
2541-	2434 Wood kitchen cabinets	(D)
2542-	3499 Fabricated metal products, n.e.c.	(D)
	3612 Transformers	(D)
2591-	3962 Artificial flowers	(D)
2599-	2511 Wood household furniture	(D)
	2514 Metal household furniture	(D)
	3589 Service industry machinery, n.e.c.	(D)
	3841 Surgical and medical instruments	(D)

Other industries with over $5 million shipments of primary products--Con.

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)
	WOOD OFFICE FURNITURE						
2521- --	Total	.....	(NA)	(X)	562.2	(X)	259.1
25210 --	Wood office furniture:						
	As reported in census of manufactures	.....	(NA)	(X)	537.2	(X)	233.3
	As reported in Current Industrial Reports MA-25H, Office Furniture	.....	(NA)	(X)	551.5	(X)	(3)
	Chairs	Thousands	(NA)	1,355.9	112.2	1,132.7	70.2
25210 11	Secretarial posture chairs		(NA)	174.4	(X)		
25210 15	Executive posture chairs		(NA)	170.0	(X)		
25210 17	Chairs, other than secretarial and executive, not upholstered		(NA)	209.2	(X)	(X)	(X)
25210 18	Chairs, other than secretarial and executive, upholstered		(NA)	778.8	(X)		
25210 20	Sofas, couches, settees, stools, etc., incuding upholstered		(NA)	88.1	16.8	75.3	11.6
25210 30	Desks (including modular unit desks)		(NA)	644.0	133.6	*431.0	77.6
25210 32	Executive type		(NA)	277.7	80.8	227.9	46.5
25210 33	Clerical and secretarial, with or without typewriter mechanisms		(NA)	386.3	52.8	**203.1	31.1
25210 39	Modular service units, except desks		(NA)	204.9	18.2	**245.5	16.9
	Tables, credenzas, bookcases, and cabinets		(NA)	566.0	70.2		
25210 91	Tables, over 60 inches		(NA)	149.0	(X)		
25210 92	Tables, 60 inches and under, excluding telephone tables		(NA)	149.6	(X)		
25210 93	Telephone tables and cabinets		(NA)	73.7	(X)		
25210 94	Credenzas		(NA)	105.1	(X)		
25210 95	Bookcases		(NA)	88.6	(X)		
	Wood furniture panel systems:						
25210 72	Panels or screens as space dividers only						
25210 74	Panels with capability of accepting hanger					(X)	57.0
25210 75	Panel supported work surfaces						
25210 76	Panel supported files						
25210 78	Panel supported storage and accessories						
25210 79	Storage and work systems		(NA)	(S)	114.6		
	Wood systems office furniture:						
25210 83	Systems desk/work surfaces						
25210 85	Systems storage						
25210 87	Systems panels	Thousands					
25210 96	Other wood office furniture	.....	(NA)	(X)	15.1		
25210 00	Wood office furniture, n.s.k.	.....	(NA)	(X)	70.8	(X)	19.1
25210 02	Wood office furniture, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	25.0	(X)	6.7
	METAL OFFICE FURNITURE						
2522- --	Total	.....	(NA)	(X)	1,353.0	(X)	789.1
25221 --	Metal office seating, including upholstered:						
	As reported in census of manufactures	.....	57	(X)	388.1	(X)	192.8
	As reported in Current Industrial Reports MA-25H, Office Furniture	.....	(NA)	(X)	400.0	(X)	(3)
25221 13	Stacking chairs	Thousands	(NA)	1,747.1	33.8	1,336.3	19.8
25221 21	Secretarial posture chairs		(NA)	984.5	60.6		
25221 23	Executive chairs		(NA)	1,146.6	127.6	3,572.7	150.3
25221 25	Chairs, side and arm		(NA)	2,820.3	131.1		
25221 51	Sofas, couches, settees, stools, etc., including upholstered		(NA)	203.8	17.0	303.9	17.1
25221 71	Tandem seating	Thousands	(NA)	75.5	9.8	(X)	5.6
25221 00	Metal office seating, including upholstered, n.s.k.	.....	(NA)	(X)	20.1		
25222 --	Desks, including modular unit desks:						
	As reported in census of manufactures	.....	43	(X)	230.7	(X)	153.7
	As reported in Current Industrial Reports MA-25H, Office Furniture	.....	(NA)	(X)	220.3	(X)	(3)
25222 21	Executive-type desks	Thousands	(NA)	302.8	56.0	285.5	38.5
25222 31	Clerical and secretarial desks, with or without typewriter mechanism	Thousands	(NA)	1,207.2	159.2	1,068.9	115.0
25222 00	Desks, n.s.k.	.....	(NA)	(X)	5.1	(X)	.2
25223 --	Filing cabinets and cases:						
	As reported in census of manufactures	.....	76	(X)	467.0	(X)	297.9
	As reported in Current Industrial Reports MA-25H, Office Furniture	.....	(NA)	(X)	455.7	(X)	(3)
	Vertical filing cabinets, noninsulated, nonmechanical, nonvisible, including security files:						
25223 11	Letter	Thousands	(NA)	2,223.8	126.0	2,051.9	96.8
25223 14	Legal		(NA)	953.9	74.4	713.3	39.9
25223 16	Other, except letter and legal	Thousands	(NA)	1,105.6	29.2	(X)	33.2

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)
	METAL OFFICE FURNITURE--Con.						
	Filing cabinets and cases--Con.						
	As reported in Current Industrial Reports MA-25H, Office Furniture--Con.						
25223 17	Horizontal filing cabinets, noninsulated, mechanical, nonvisible, including security files	Thousands	(NA)	682.0	94.9	306.0	27.2
25223 19	Mechanical nonvisible files, all sizes, manual and electrical		(NA)	67.2	28.3	(X)	18.6
25223 23	Insulated filing, film, and tape cabinets, and security files, excluding stores		(NA)	124.8	23.8	62.6	15.5
	Visible equipment (other than insulated), including vertical and rotary units:						
25223 24	Nonmechanical, including cabinets, reference panel type chart boards, book type, etc		(NA)	1,172.2	32.4	832.4	31.8
25223 26	Mechanical, including card size and reference type, manually or electrically operated	Thousands	(NA)	18.6	3.5	(S)	27.4
25223 00	Filing cabinets and cases, n.s.k		(NA)	(X)	43.2	(X)	7.5
25224 --	Other metal office furniture, including tables, stands, etc.:						
	As reported in census of manufactures		73	(X)	233.7	(X)	107.8
	As reported in Current Industrial Reports MA-25H, Office Furniture		(NA)	(X)	245.7	(X)	(3)
25224 11	Metal tables and stands	Thousands	(NA)	565.5	59.5	749.6	32.0
25224 21	Modular service units, except desks		(NA)	259.5	31.0	267.7	17.8
	Metal furniture panel systems:						
25224 73	Panels or screens as space dividers only						
25224 74	Panels with capability of accepting hangers						
25224 75	Panel-supported work surfaces						
25224 77	Panel-supported files						
25224 79	Panel-supported storage and accessories		(NA)	(S)	58.6		
	Metal systems office furniture:					(X)	51.9
25224 83	Systems desk/work surface						
25224 85	Systems storage						
25224 87	Systems panels	Thousands					
25224 98	Other metal office furniture, including bookcases, storage cabinets, costumers, etc		(NA)	(X)	77.7		
25224 00	Other metal office furniture, including tables, stands, etc., n.s.k		(NA)	(X)	18.9	(X)	6.1
25220 00	Metal office furniture, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	19.6	(X)	33.4
25220 02	Metal office furniture, n.s.k., typically for establishments with less than 5 employees or more (see note)		(NA)	(X)	13.9	(X)	3.5
	PUBLIC BUILDING AND RELATED FURNITURE						
2531- --	Total		(NA)	(X)	724.7	(X)	485.2
25311 --	School furniture, except stone, concrete, and library furniture		(NA)	(X)	185.4	(X)	181.2
25311 31	Single pupil units	1,000 units	16	**1,884.6	30.8	**1,935.2	35.2
25311 36	Chairs, all purpose (nonfolding)		14	**1,936.7	20.0	2,454.4	24.6
25311 37	Storage cabinets	1,000 units	37	(S)	45.4	354.0	36.5
25311 98	Other school furniture, designed specifically for use in schools, including two or more pupil desks and tables, combination folding tables and benches, tables, teachers' desks, study carrels, chalk boards, etc		60	(X)	81.1	(X)	63.8
25311 00	School furniture, n.s.k		(NA)	(X)	8.1	(X)	21.1
25312 --	Public building and related furniture, except school and restaurant		(NA)	(X)	479.5	(X)	268.4
25312 11	Seats for public conveyances--automobiles, trucks, aircraft, and buses	1,000 units	47	(S)	174.6	1,823.6	78.4
25312 31	Church pews	1,000 lin. ft.	38	1,971.3	33.3	2,384.3	25.4
25312 39	Other church furniture (pulpits, altars, lecterns, etc.)		28	(X)	11.5	(X)	7.6
25312 41	Folding tables, including folding banquet tables	1,000 tables	13	1,386.0	38.0	783.6	25.0
	Chairs and seats, including theater and auditorium:						
25312 51	Fixed	1,000 chairs	10	514.7	25.8	1,144.0	35.2
25312 55	Portable folding chairs, single or ganged		5	3,719.9	24.1	4,119.7	15.8
25312 57	Stacking chairs	1,000 chairs	12	1,945.4	23.6	719.8	12.0
25312 61	Stadium and bleacher seating, including grandstands		20	(X)	45.1	(X)	14.6
25312 71	Library furniture, all types, including chairs, charging desks, study carrels, reading tables, etc		25	(X)	29.3	(X)	17.6
25312 98	Other public building furniture		43	(X)	60.4	(X)	26.1
25312 00	Public building and related furniture, except school, n.s.k		(NA)	(X)	13.8	(X)	10.7
25310 00	Public building and related furniture, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	31.8	(X)	25.4
25310 02	Public building and related furniture, n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	28.0	(X)	10.2

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972**—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)
	WOOD PARTITIONS AND FIXTURES						
2541- --	Total		(NA)	(X)	1,070.8	(X)	772.1
25411 --	Wood partitions, shelving, and lockers		(NA)	(X)	135.6	(X)	77.0
25411 11	Partitions (prefabricated, assembled, or knocked down)		38	(X)	70.1	(X)	47.2
25411 21	Shelving		37	(X)	55.4	(X)	29.8
25411 31	Lockers	1,000 openings	4	(S)	3.5		
25411 00	Wood partitions, shelving, and lockers, n.s.k.		(NA)	(X)	6.6	(X)	-
25412 --	Plastic laminated fixture tops:						
25412 71	Plastic laminated fixture tops, including tops for drainboards, sinks, cabinets, tables, counters, and fixtures	1,000 sq. ft.	143	(S)	204.2	(S)	141.8
25413 --	Wood fixtures for stores, banks, and offices, and other wood fixtures		(NA)	(X)	561.1	(X)	354.0
	Store fixtures (retail), except food stores:						
	Custom:						
25413 32	Walls and wall fixtures		96	(X)	93.1	(X)	56.4
25413 33	Center floor tables and gondolas		79	(X)	59.2	(X)	63.3
25413 34	Other fixtures and displays		93	(X)	77.2	(X)	52.7
	Manufacturers' standard:						
25413 35	Walls and wall fixtures		13	(X)	10.7	(X)	21.5
25413 36	Center floor tables and gondolas		18	(X)	18.6	(X)	10.6
25413 37	Other fixtures and displays		23	(X)	46.7	(X)	24.7
25413 38	Store fixtures for use in retail food stores		37	(X)	42.9	(X)	16.1
25413 39	Other show and display cases, including wall types, and tables		44	(X)	51.9	(X)	22.5
25413 41	Cabinets (floor or wall types)		75	(X)	33.9	(X)	33.6
25413 51	Fitting room partitions		9	(X)	3.4	(X)	(5)
25413 61	Counters, except bank counters		40	(X)	12.0	(X)	9.5
25413 81	Bank fixtures, including bank counters		63	(X)	30.3	(X)	23.4
25413 98	Other wood fixtures, including window backs, telephone booths, miscellaneous display fixtures, cashier stands, clothing racks, etc		42	(X)	31.3	(X)	519.7
25413 00	Wood fixtures for stores, banks, and offices, and other wood fixtures, n.s.k.		(NA)	(X)	49.9	(X)	-
25410 00	Wood partitions and fixtures, n.s.k., typically for establishments with 5 employees or more (see note)		(NA)	(X)	116.0	(X)	138.8
25410 02	Wood partitions and fixtures, n.s.k., typically for establishments with less than 5 employees (see note)		(NA)	(X)	53.9	(X)	60.5
	METAL PARTITIONS AND FIXTURES						
2542- --	Total		(NA)	(X)	1,215.8	(X)	713.2
25421 --	Metal partitions prefabricated, assembled, or knocked down		(NA)	(X)	96.7	(X)	79.4
25421 13	Toilet partitions		12	(X)	31.3	(X)	18.3
25421 17	Movable, except free standing		12	(X)	34.1	(X)	44.5
25421 19	Other partitions, including free standing, but excluding accordion and folding type doors		22	(X)	26.0	(X)	16.6
25421 00	Metal partitions prefabricated, assembled, or knocked down, n.s.k.		(NA)	(X)	5.3	(X)	-
25422 --	Metal shelving and lockers		(NA)	(X)	349.4	(X)	236.2
	Shelving:						
25422 33	Commercial shelving (factories, stores, etc.)		52	(X)	195.1	(X)	147.8
25422 35	Office shelving for correspondence, computer tapes, microfilm, etc., including shelf files with or without doors		11	(X)	7.8	(X)	12.6
25422 37	Bookstacks (library, office, and school)		15	(X)	21.1	(X)	12.1
25422 39	Other shelving		13	(X)	33.4	(X)	24.9
25422 51	Lockers, metal	1,000 openings	25	3,542.6	74.4	(S)	38.8
25422 00	Metal shelving and lockers, n.s.k.		(NA)	(X)	17.6	(X)	-
25423 --	Metal storage racks and accessories		(NA)	(X)	275.6	(X)	95.2
25423 41	Drive-in/drive-thru and gravity conveyor pallet storage racks		15	(X)	14.3	(X)	6.9
25423 43	Cantilever storage racks		19	(X)	23.9	(X)	10.3
25423 45	Portable metal stacking racks and frames		29	(X)	64.2	(X)	22.4
25423 47	Stacker-racks (pallet support, beams perpendicular to storage aisle)		8	(X)	39.1	(X)	8.1
25423 49	Other metal racks, including conventional pallet racks and accessories		47	(X)	117.8	(X)	47.5
25423 00	Metal storage racks and accessories, n.s.k.		(NA)	(X)	16.3	(X)	-

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)
	METAL PARTITIONS AND FIXTURES--Con.						
25424 --	Metal fixtures for stores, banks, offices, and miscellaneous fixtures	.....	(NA)	(X)	391.0	(X)	217.3
	Store fixtures (retail), except for food stores:						
25424 63	Custom	.....	33	(X)	66.2	(X)	55.4
25424 65	Manufacturers' standard	.....	27	(X)	63.0	(X)	43.5
25424 67	Store fixtures for retail food stores	.....	22	(X)	73.3	(X)	20.9
25424 69	Other show and display cases, including wall types, and tables, metal	.....	22	(X)	33.2	(X)	17.7
25424 71	Cabinets (floor or wall types), metal	.....	25	(X)	53.1	(X)	36.1
25424 81	Counters, except bank counters, metal	.....	6	(X)	14.7	(X)	8.7
25424 83	Bank fixtures, metal, including counters	.....	1	(X)	([6])	(X)	4.3
25424 98	Other metal fixtures, including window backs, telephone booths, miscellaneous display fixtures, cashier stands, clothing racks, except ornamental metal work, etc	.....	42	(X)	[6]62.6	(X)	30.6
25424 00	Metal fixtures for stores, banks, offices, and miscellaneous fixtures, n.s.k.	.....	(NA)	(X)	24.9	(X)	-
25420 00	Metal partitions and fixtures, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	73.7	(X)	69.7
25420 02	Metal partitions and fixtures, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	29.4	(X)	15.4
	DRAPERY HARDWARE AND WINDOW BLINDS AND SHADES						
2591- --	Total	.....	(NA)	(X)	615.3	(X)	311.3
25913 --	Window shades and accessories[7]	.....	(NA)	(X)	140.3	(X)	[8]80.9
	Window shades:						
25913 11	Plastic window shades	Millions.....	17	**29.3	63.0	**39.5	68.0
25913 13	Other window shades, including cloth, paper, etc	Millions.....	23	(S)	48.6		
25913 15	Window shade accessories, and rollers sold separately	.....	6	(X)	18.7	(X)	(D)
25913 00	Window shades and accessories, n.s.k.	.....	(NA)	(X)	10.0	(X)	[8](D)
25914 --	Venetian blinds[7]	.....	(NA)	(X)	89.6	(X)	[8]29.1
	Complete venetian blinds, vertical and horizontal:						
25914 12	Steel-slat blinds	Millions.....	2	(D)	(D)	(S)	3.7
25914 52	Aluminum-slat blinds	↕	17	(S)	52.3	(S)	12.1
25914 59	All other venetian blinds, including wood, plastic, etc	Millions.....	5	(S)	5.1	(D)	(D)
25914 71	Unassembled venetian blinds, parts, and components fabricated at plant	.....	4	(X)	(D)	(X)	8.8
25914 00	Venetian blinds, n.s.k.	.....	(NA)	(X)	13.0	(X)	[8](D)
25915 --	Other shades and blinds n.e.c., and curtain and drapery rods, poles and other hardware[7]	.....	(NA)	(X)	329.7	(X)	[8]160.4
25915 11	Other shades and blinds, except canvas and other textile fabrics, including wood, metal, plastic, chip, bamboo, rattan, reed, etc	.....	25	(X)	81.5	(S)	14.3
25915 17	Curtain and drapery rods, poles, and fixtures fabricated at plant	Millions.....	21	(X)	241.3	(X)	146.1
25915 00	Other shades and blinds, n.s.k.	.....	(NA)	(X)	6.9	(X)	[8]-
25910 00	Drapery hardware and window blinds and shades, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	37.3	(X)	12.2
25910 02	Drapery hardware and window blinds and shades, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	18.4	(X)	28.7
	FURNITURE AND FIXTURES, N.E.C.						
2599- --	Total	.....	(NA)	(X)	687.4	(X)	379.9
25990 --	Furniture and fixtures, n.e.c.:						
25990 21	Hospital beds	1,000 units...	13	**175.7	62.9	156.4	38.6
	Restaurant, cafeteria, and bar furniture:						
25990 41	Wood chairs and stools	↕	24	(S)	35.6	(S)	17.0
25990 45	Metal chairs and stools	1,000 units...	18	(S)	31.4	(S)	30.1
25990 47	Booths, bars, and back bars	.....	52	(X)	60.7	(X)	25.5
25990 48	Other restaurant, cafeteria, and bar furniture and fixtures, including fabricated food service and processing equipment, counters, dishtables, tableware dispensers, tables, table tops and bases, tray stands, serving tables, bus carts, food trucks, etc	.....	129	(X)	215.2	(X)	102.9

See footnotes at end of table.

Table 6a. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)
	FURNITURE AND FIXTURES, N.E.C.--Con.						
	Furniture and fixtures, n.e.c.--Con.						
25990 98	Other furniture and fixtures, n.e.c., except household, including ship furniture, amusement game cabinets, industrial work benches and stools, sorting tables, and cabinets	.....	123	(X)	198.8	(X)	96.6
25990 00	Furniture and fixtures, n.e.c., n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	63.4	(X)	55.7
25990 02	Furniture and fixtures, n.e.c., n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	19.4	(X)	13.5

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]For 1972, CIR MA-25H survey was not conducted; product detail was collected in census of manufactures.

[4]This figure has been revised from previously published figure in 1977 CIR MA-25H to reconcile 1977 Census of Manufactures with CIR findings.

[5]In 1972, product code 25413 51 was included with product code 25413 98.

[6]For 1977, product code 25424 83 was included with product code 25424 98 to avoid disclosing operations of individual companies.

[7]Product class structure for industry 2591 was revised for 1977. 1977 product class 25915 was formed out of parts of 1972 product classes 25911 and 25912. 1972 product classes 25911 and 25912 were then renumbered to 25913 and 25914.

[8]1977 and 1972 totals for product classes 25913, 25914, and 25915 are not completely comparable because of 1977 revision to product class structure for industry 2591. For 1972, amount of product code 25915 00 included in product codes 25913 00 and 25914 00 is not known.

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
25221, METAL OFFICE SEATING, INCLUDING UPHOLSTERED		
United States	388.1	192.8
Middle Atlantic Division:		
Pennsylvania	43.8	28.5
East North Central Division:		
Indiana	14.9	11.8
Michigan	133.1	GG
West South Central Division:		
Texas	13.9	BB
Pacific Division:		
California	32.5	14.2
25222, METAL OFFICE DESKS		
United States	230.7	153.7
Middle Atlantic Division:		
New York	16.7	CC
New Jersey	17.8	EE
Pennsylvania	19.0	23.6
Pacific Division:		
California	27.4	19.9
25223, METAL OFFICE FILING CABINETS AND CASES		
United States	467.0	297.9
Middle Atlantic Division:		
New York	46.4	46.8
Pennsylvania	56.9	30.0
East North Central Division:		
Ohio	61.3	64.2
Indiana	4.0	BB
Illinois	15.5	17.8
Wisconsin	20.4	14.2
South Atlantic Division:		
Georgia	28.2	(NA)
Pacific Division:		
California	44.9	19.7
25224, OTHER METAL OFFICE FURNITURE		
United States	233.7	107.8
Middle Atlantic Division:		
New York	10.2	4.3
Pennsylvania	19.3	14.0
East North Central Division:		
Ohio	8.4	2.5
Indiana	3.4	BB
Pacific Division:		
California	24.2	EE
25311, SCHOOL FURNITURE, EXCEPT STONE AND CONCRETE		
United States	185.4	181.2
New England Division:		
Massachusetts	3.3	CC
Connecticut	3.9	AA
East North Central Division:		
Ohio	5.3	6.1
Indiana	3.0	9.7
Illinois	8.8	EE
Michigan	12.9	21.9
Wisconsin	3.6	CC
25311, SCHOOL FURNITURE, EXCEPT STONE AND CONCRETE--Con.		
West North Central Division:		
Minnesota	12.5	5.1
Kansas	3.1	BB
South Atlantic Division:		
Virginia	4.5	BB
West South Central Division:		
Texas	31.5	24.0
Pacific Division:		
Washington	26.1	12.3
California	4.6	CC
25312, PUBLIC BUILDING AND RELATED FURNITURE, EXCEPT SCHOOL		
United States	479.5	268.4
Middle Atlantic Division:		
New York	5.7	9.7
Pennsylvania	22.3	11.5
East North Central Division:		
Ohio	37.4	8.3
Indiana	17.3	8.0
Illinois	25.3	21.7
Michigan	45.5	53.1
Wisconsin	28.2	14.2
West North Central Division:		
Minnesota	10.2	6.1
Iowa	11.8	11.6
South Atlantic Division:		
Virginia	21.2	4.7
North Carolina	28.3	19.9
Florida	2.9	3.0
East South Central Division:		
Tennessee	25.6	11.7
Alabama	15.7	AA
West South Central Division:		
Arkansas	26.5	EE
Texas	18.3	10.7
Pacific Division:		
California	50.5	10.6
25411, WOOD PARTITIONS, SHELVING, AND LOCKERS		
United States	135.6	77.0
Middle Atlantic Division:		
New York	12.3	12.4
New Jersey	4.5	CC
East North Central Division:		
Indiana	5.4	BB
Illinois	15.8	CC
Michigan	39.3	21.4
Pacific Division:		
California	11.9	CC
25412, PLASTICS LAMINATED FIXTURE TOPS		
United States	204.2	141.8
Middle Atlantic Division:		
New York	16.6	16.6
New Jersey	2.6	1.7
Pennsylvania	13.3	5.5

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** — Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
25412, PLASTICS LAMINATED FIXTURE TOPS--Con.		
East North Central Division:		
Ohio	9.8	5.1
Indiana	16.5	10.0
Illinois	14.1	12.1
Michigan	6.5	3.5
Wisconsin	8.9	7.2
West North Central Division:		
Minnesota	2.9	1.8
Iowa	3.9	1.3
Missouri	2.2	2.2
Kansas	2.8	2.3
South Atlantic Division:		
North Carolina	11.4	3.5
Georgia	3.2	1.7
Florida	2.1	2.9
East South Central Division:		
Alabama	4.0	(NA)
West South Central Division:		
Texas	10.2	7.4
Mountain Division:		
Colorado	4.6	BB
Pacific Division:		
Oregon	7.0	(NA)
California	25.3	17.4
25413, WOOD FIXTURES FOR STORES, BANKS, OFFICES, ETC.		
United States	561.1	354.0
New England Division:		
Massachusetts	9.5	5.8
Rhode Island	2.0	BB
Connecticut	7.5	5.9
Middle Atlantic Division:		
New York	64.4	37.4
New Jersey	23.9	13.6
Pennsylvania	31.5	35.8
East North Central Division:		
Ohio	25.2	16.1
Indiana	2.7	1.8
Illinois	49.2	25.7
Michigan	33.1	21.9
Wisconsin	15.8	4.2
West North Central Division:		
Minnesota	24.4	14.2
Missouri	13.0	8.7
South Atlantic Division:		
Maryland	5.9	BB
Virginia	13.8	5.1
North Carolina	28.1	24.5
Georgia	9.4	7.9
Florida	7.8	8.1
East South Central Division:		
Kentucky	2.8	2.2
West South Central Division:		
Arkansas	4.2	AA
Oklahoma	12.5	CC
Texas	33.4	12.8
Mountain Division:		
Colorado	6.4	6.3
Utah	8.8	BB
Pacific Division:		
Washington	9.1	BB
Oregon	4.2	AA
California	74.2	41.0
25421, METAL PARTITIONS		
United States	96.7	79.4
Middle Atlantic Division:		
New York	24.8	15.5
Pennsylvania	6.5	4.9
East North Central Division:		
Ohio	35.0	26.8
Pacific Division:		
California	5.5	(NA)
25422, METAL SHELVING AND LOCKERS		
United States	349.4	236.2
Middle Atlantic Division:		
New York	12.8	EE
New Jersey	24.8	CC
Pennsylvania	70.6	31.1
East North Central Division:		
Ohio	52.6	FF
Illinois	83.8	45.0
West North Central Division:		
Minnesota	5.5	5.2
South Atlantic Division:		
Florida	2.4	(NA)
Pacific Division:		
California	10.3	EE
25423, METAL STORAGE RACKS AND ACCESSORIES		
United States	275.6	95.2
New England Division:		
Connecticut	4.6	AA
Middle Atlantic Division:		
New York	8.6	3.0
New Jersey	10.6	6.3
Pennsylvania	28.8	8.9
East North Central Division:		
Ohio	24.5	11.5
Illinois	47.0	13.5
Michigan	55.0	CC
South Atlantic Division:		
Georgia	16.4	BB
Pacific Division:		
California	22.2	EE
25424, METAL FIXTURES FOR STORES, BANKS, OFFICES, ETC.		
United States	391.0	217.3
New England Division:		
Massachusetts	4.8	(NA)
Middle Atlantic Division:		
New York	56.2	27.1
New Jersey	4.9	7.8
Pennsylvania	25.7	9.4
East North Central Division:		
Ohio	25.9	20.2
Indiana	22.6	EE
Illinois	46.1	38.3
Michigan	15.6	EE

See footnotes at end of table.

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972—Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
25424, METAL FIXTURES FOR STORES, BANKS, OFFICES, ETC.--Con.		
West North Central Division:		
Missouri	12.4	5.6
South Atlantic Division:		
North Carolina	4.8	2.8
Georgia	6.8	AA
East South Central Division:		
Alabama	13.9	CC
West South Central Division:		
Texas	20.2	CC
Pacific Division:		
California	41.9	EE
25913, WINDOW SHADES AND ACCESSORIES		
United States	140.3	80.9
Middle Atlantic Division:		
New York	11.3	(NA)
New Jersey	3.4	(NA)
East North Central Division:		
Indiana	10.9	(NA)
Wisconsin	2.5	(NA)
Pacific Division:		
California	3.2	(NA)
25914, VENETIAN BLINDS		
United States	89.6	29.1
Middle Atlantic Division:		
New York	3.8	(NA)
South Atlantic Division:		
Florida	2.1	(NA)
West South Central Division:		
Texas	7.7	(NA)
Pacific Division:		
California	10.6	(NA)
25915, OTHER SHADES AND BLINDS, N.E.C., AND DRAPERY HARDWARE		
United States	329.7	160.4
Middle Atlantic Division:		
New York	11.9	(NA)
South Atlantic Division:		
Florida	5.4	(NA)
Pacific Division:		
California	46.1	(NA)

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available. N.E.C. Not elsewhere classified.

Table 6c. **Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977**

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
25210	Wood office furniture	562.2	385.3	332.7	358.5	283.1	259.1	158.1	100.4
2522-	Metal office furniture	1,353.0	1,073.1	948.3	1,001.8	927.1	789.1	585.8	359.1
25221	Metal office seating, including upholstered	388.1	266.5	233.7	261.0	239.9	192.8	133.6	73.6
25222	Metal office desks	230.7	169.3	154.4	188.0	178.0	153.7	150.6	88.3
25223	Metal office filing cabinets and cases	467.0	387.3	361.4	380.0	365.5	297.9	200.2	143.2
25224	Other metal office furniture	233.7	219.4	179.9	150.1	108.5	107.8	86.6	50.3
25220	Metal office furniture, n.s.k.	33.5	30.6	(18.9)	(22.7)	35.2	36.9	14.8	3.7
2531-	Public building and related furniture	724.7	716.0	638.9	592.1	555.0	485.2	389.5	263.3
25311	School furniture, except stone and concrete	185.4	242.6	232.9	227.3	202.8	181.2	158.5	118.0
25312	Public building and related furniture, except school	479.5	458.8	390.8	344.5	310.4	268.4	209.5	134.2
25310	Public building and related furniture, n.s.k.	59.8	(14.6)	(15.2)	(20.3)	41.8	35.6	21.5	11.1
2541-	Wood partitions and fixtures	1,070.8	910.7	784.3	(854.6)	889.7	772.1	484.5	384.5
25411	Wood partitions, shelving, and lockers	135.6	(206.1)	183.8	193.0	125.6	77.0		
25412	Plastics laminated fixture tops	204.2	233.8	(202.5)	213.4	181.1	141.8	484.5	384.5
25413	Wood fixtures for stores, banks, offices, etc.	561.1	393.0	317.7	347.2	425.1	354.0		
25410	Wood partitions and fixtures, n.s.k.	169.9	(77.8)	(80.3)	(101.0)	157.9	199.3		
2542-	Metal partitions and fixtures	1,215.8	875.7	812.6	850.0	771.8	713.2	512.2	367.8
25421	Metal partitions	96.7	(73.0)	109.9	104.8	79.6	79.4		
25422	Metal shelving and lockers	349.4	302.7	266.6	263.7	264.7	236.2		
25423	Metal storage racks and accessories	275.6	191.2	155.2	187.2	109.5	95.2	512.2	367.8
25424	Metal fixtures for stores, banks, offices, etc.	391.0	248.2	215.4	223.4	268.3	217.3		
25420	Metal partitions and fixtures, n.s.k.	103.1	(60.6)	(65.5)	70.9	(49.7)	85.1		
2591-	Drapery hardware and blinds and shades	615.3	446.8	353.2	332.7	349.8	311.3	207.0	170.8
25913	Window shades and accessories	140.3					[2]80.9		
25914	Venetian blinds	89.6	446.8	353.2	332.7	307.0	[2]29.1	176.4	159.3
25915	Other shades and blinds, n.e.c., and drapery hardware	329.7					[2]160.4		
25910	Drapery hardware and blinds and shades, n.s.k.	55.7				42.8	40.9	30.6	11.5
25990	Furniture and fixtures, n.e.c.	687.4	462.2	431.2	417.9	407.2	379.9	193.8	101.9

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]For 1977 and 1972, total for product classes 25913, 25914, and 25915 are not completely comparable because of 1977 revision to product class structure for industry 2891. For 1972, product classes 25913 and 25914 include unknown amounts of product code 25915 00 which should be included in product class 25915.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity[1]	Delivered cost (million dollars)
	INDUSTRY 2521, WOOD OFFICE FURNITURE					
	Materials, parts, containers, and supplies	.....	(X)	224.1	(X)	98.8
242111	Hardwood lumber, rough and dressed	Million bd. ft.	**60.7	29.0	1.4	19.1
242123	Softwood lumber, rough and dressed	Million bd. ft.	(S)	2.7	4.1	1.4
243540	Hardwood veneer	Million sq. ft. (surface meas.)	*51.5	11.3	54.7	4.6
243510	Hardwood plywood	Million sq. ft. (surface meas.)	17.1	17.4	13.6	6.6
243601	Softwood plywood	Million sq. ft. (3/8" basis)..	*2.0	.9	(S)	.6
249200	Particleboard (wood)	Million sq. ft. (3/4" basis)..	**39.1	8.5	25.0	4.7
249970	Medium density fiberboard (MDF)	Million sq. ft. (3/4" basis)..	(S)	.8	(NA)	(2)
249960	Hardboard (wood fiberboard)	Million sq. ft. (1/8" basis)..	(S)	2.7	2.6	.3
265001	Paperboard boxes and containers	.....	(X)	7.5	(X)	3.6
285101	Paints, varnishes, lacquers, shellacs, japans, and enamels	Mil. gal.....	(S)	4.6	.7	1.8
307931	Plastics laminated sheets	.....	(X)	5.8	(X)	4.8
229508	Coated or laminated fabric for upholstery	Mil. lin. yd...	*2.0	9.0	2.1	4.6
321101	Flat glass, plate, float, and sheet	Million sq. ft.	2.8	.3	(NA)	(2)
	Mill shapes and forms, except castings:					
	Carbon steel, including wrought iron:					
331012	Sheet and strip	1,000 s. tons..	(D)	(D)	(S)	1.5
331019	All other carbon steel mill shapes and forms, including tubing		*3.8	1.6		
331020	Alloy steel mill shapes and forms, except stainless		(D)	(D)	(S)	(Z)
331031	Stainless steel mill shapes and forms	1,000 s. tons..			(S)	.4
335001	Aluminum and aluminum-base alloy mill shapes and forms	Million lb.....	(S)	6.2	-	-
330120	Copper and copper-base materials, sheet, strip, plate, bar, tubing, and castings	Million lb.....	(S)	(Z)	(NA)	(2)
342901	Furniture and builders hardware, including cabinet hardware, casters, glides, handles, hinges, locks, etc	.....	(X)	18.7	(X)	10.5
307951	Plastics furniture parts and components	.....	(X)	3.4	(X)	.7
970099	All other materials and components, parts, containers, and supplies	.....	(X)	32.8	(X)	22.7
971000	Materials, parts, containers, and supplies, n.s.k.[3]	.....	(X)	51.7	(X)	10.9
	INDUSTRY 2522, METAL OFFICE FURNITURE					
	Materials, parts, containers, and supplies	.....	(X)	487.6	(X)	280.1
242111	Hardwood lumber, rough and dressed	Million bd. ft.	(S)	2.2	4.5	1.4
242123	Softwood lumber, rough and dressed	Million bd. ft.	1.6	.7	5.7	1.0
243540	Hardwood veneer	Million sq. ft. (surf. meas.).	(S)	3.8	6.1	1.8
243510	Hardwood plywood	Million sq. ft. (surf. meas.).	(S)	1.1	5.1	2.2
243601	Softwood plywood	Million sq. ft. (3/8" basis).	(D)	(D)	2.7	.9
249200	Particleboard (wood)	Million sq. ft. (3/4" basis).	(S)	2.8	6.8	1.9
249970	Medium density fiberboard (MDF)	Million sq. ft. (3/4" basis).	(D)	(D)	(X)	(2)
249960	Hardboard (wood fiberboard)	Million sq. ft. (1/8" basis).	(S)	2.4	(D)	(D)
265001	Paperboard boxes and containers	.....	(X)	25.3	(X)	15.7
285101	Paints, varnishes, lacquers, shellacs, japans, and enamels	Mil. gal.....	(S)	16.8	2.6	9.0
307931	Plastics laminated sheets	.....	(X)	7.9	(X)	5.5
229508	Coated or laminated fabric for upholstery	Mil. lin. yd...	**3.9	15.5	9.2	8.0
321101	Flat glass, plate, float, and sheet	Million sq. ft.	**.5	.5	(X)	(2)
	Mill shapes and forms, except castings:					
	Carbon steel, including wrought iron:					
331012	Sheet and strip	1,000 s. tons..	*541.9	178.3	455.4	88.1
331019	All other carbon steel mill shapes and forms, including tubing		(S)	16.9	51.8	12.4
331020	Alloy steel mill shapes and forms, except stainless		(S)	1.0	(D)	(D)
331031	Stainless steel mill shapes and forms	1,000 s. tons..	10.0	4.5	2.9	3.4
335001	Aluminum and aluminum-base alloy mill shapes and forms	Million lb.....	(S)	3.8	7.6	5.0
342901	Furniture and builders hardware, including cabinet hardware, caster, glides, hinges, locks, etc	.....	(X)	48.8	(X)	34.4
307951	Plastics furniture parts and components	.....	(X)	18.3	(X)	8.9
970099	All other materials and components, parts, containers, and supplies	.....	(X)	89.6	(X)	60.9
971000	Materials, parts, containers, and supplies, n.s.k.[3]	.....	(X)	43.8	(X)	16.2
	INDUSTRY 2531, PUBLIC BUILDING AND RELATED FURNITURE					
	Materials, parts, containers, and supplies	.....	(X)	318.5	(X)	207.5
242111	Hardwood lumber, rough and dressed	Mil. bd. ft....	*37.4	15.2	*32.5	10.1
242123	Softwood lumber, rough and dressed	Mil. bd. ft....	(S)	3.3	**13.2	3.7
243540	Hardwood veneer	Mil. sq. ft. (surf. meas.).	(S)	4.0	**30.0	2.0

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity[1]	Delivered cost (million dollars)
	INDUSTRY 2531, PUBLIC BUILDING AND RELATED FURNITURE--Con.					
243510	Hardwood plywood	Mil. sq. ft. (surf. meas.).	**7.8	6.2	**15.9	6.9
243601	Softwood plywood	Mil. sq. ft. (3/8" basis).	(S)	3.8	**25.6	3.3
249200	Particleboard (wood)	Mil. sq. ft. (3/4" basis).	**47.6	11.2	44.2	5.7
249970	Medium density fiberboard (MDF)	Mil. sq. ft. (3/4" basis).	(S)	.9	(X)	(2)
249960	Hardboard (wood fiberboard)	Mil. sq. ft. (1/8" basis).	**22.9	2.9	29.7	1.9
265001	Paperboard boxes and containers	.....	(X)	7.1	(X)	5.7
285101	Paints, varnishes, lacquers, shellacs, japans, and enamels	Mil. gal.	1.1	5.2	1.4	4.0
307931	Plastics laminated sheets	.....	(X)	13.1	(X)	11.0
229508	Coated or laminated fabric for upholstery	Mil. lin. yd.	(S)	17.2	**3.6	8.3
321101	Flat glass, plate, float, and sheet	Mil. sq. ft.	(S)	.5	(X)	(2)
	Mill shapes and forms, except castings:					
	Carbon steel, including wrought iron:					
331012	Sheet and strip	1,000 s. tons.	(S)	34.6	**112.5	23.0
331019	All other carbon steel mill shapes and forms, including tubing	↕	(S)	15.5	**21.5	7.0
331020	Alloy steel, except stainless	↕	1.0	.5	10.3	3.3
331031	Stainless steel	1,000 s. tons.	(D)	(D)	2.9	.8
335001	Aluminum and aluminum-base alloy	Million lb.	*8.7	7.3	*6.1	5.5
330120	Copper and copper-base materials, sheet, strip, plate, bar, tubing, and castings	Million lb.	(D)	(D)	(X)	(2)
342901	Furniture and builders hardware, including cabinet hardware, casters, glides, handles, hinges, locks, etc	.....	(X)	15.5	(X)	12.0
307951	Plastics furniture parts and components	.....	(X)	9.6	(X)	7.7
970099	All other materials and components, parts, containers and supplies	.....	(X)	63.3	(X)	261.5
971000	Materials, parts, containers, and supplies, n.s.k.[3]	.....	(X)	78.1	(X)	24.1
	INDUSTRY 2541, WOOD PARTITIONS AND FIXTURES					
	Materials, parts, containers, and supplies	.....	(X)	421.6	(X)	294.4
242111	Hardwood lumber (rough and dressed)	Million bd. ft.	(S)	25.3	**34.5	13.9
242123	Softwood lumber (rough and dressed)	Million bd. ft.	(S)	18.5	**30.0	8.3
243540	Hardwood veneer	Million sq. ft. (surf. meas.).	(S)	5.8	**15.9	2.6
243510	Hardwood plywood	Million sq. ft. (surf. meas.).	(S)	13.8	**33.1	14.2
243601	Softwood plywood	Million sq. ft. (3/8" basis).	**53.4	16.3	**82.1	11.0
249200	Particleboard (wood)	Million sq. ft. (3/4" basis).	184.7	37.5	**165.3	26.4
249970	Medium density fiberboard (MDF)	Million sq. ft. (3/4" basis).	15.4	3.8	(X)	(2)
249960	Hardboard (wood fiberboard)	Million sq. ft. (1/8" basis).	(S)	8.4	**66.5	5.5
265001	Paperboard boxes and containers	.....	(X)	7.7	(X)	2.9
285101	Paints, varnishes, lacquers, shellacs, japans, and enamels	Mil. gal.	(S)	8.0	**1.4	4.8
307931	Plastics laminated sheets	.....	(X)	42.3	(X)	35.9
229508	Coated or laminated fabric (upholstery)	Mil. lin. yd.	*10.1	.8	(S)	.6
321101	Flat glass, plate, float, and sheet	Million sq. ft.	(S)	5.1	(X)	(2)
	Mill shapes and forms, except castings:					
	Carbon steel, including wrought iron:					
331012	Sheet and strip	1,000 s. tons.	8.1	3.4	(S)	4.0
331019	All other carbon steel mill shapes and forms, including tubing	↕	5.3	3.5	*6.0	2.0
331020	Alloy steel mill shapes and forms, except stainless	↕	3.4	2.1	(S)	.9
331031	Stainless steel mill shapes and forms	1,000 s. tons.	(S)	1.2	**1.8	2.9
335001	Aluminum and aluminum-base alloy mill shapes and forms	Million lb.	4.0	3.7	(X)	3.3
330120	Copper and copper-base materials, sheet, strip, plate, bar, tubing, and castings	Million lb.	(4)	(4)	(X)	(2)
342901	Furniture and builders hardware, including cabinet hardware, casters, glides, handles, hinges, locks, etc	.....	(X)	21.0	(X)	18.9
307951	Plastics furniture parts and components	.....	(X)	5.4	(X)	1.7
970099	All other materials and components, parts, containers, and supplies	.....	(X)	468.0	(X)	247.4
971000	Materials, parts, containers, and supplies, n.s.k.[3]	.....	(X)	120.0	(X)	87.2
	INDUSTRY 2542, METAL PARTITIONS AND FIXTURES					
	Materials, parts, containers, and supplies	.....	(X)	552.7	(X)	282.3
242111	Hardwood lumber (rough and dressed)	Mil. bd. ft.	(S)	1.7	6.9	1.6
242123	Softwood lumber (rough and dressed)	Mil. bd. ft.	(S)	1.4	**11.2	2.0
243540	Hardwood veneer	Mil. sq. ft. (surf. meas).	(5)	(5)	(S)	.4
243510	Hardwood plywood	Mil. sq. ft. (surf. meas).	(S)	.8	**3.0	1.2
243601	Softwood plywood	Mil. sq. ft. (3/8" basis).	8.5	.9	**8.3	1.9

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity[1]	Delivered cost (million dollars)
	INDUSTRY 2542, METAL PARTITIONS AND FIXTURES--Con.					
249200	Particleboard (wood)	Mil. sq. ft. (3/4" basis).	*7.1	2.3	(S)	1.8
249970	Medium density fiberboard (MDF)	Mil. sq. ft. (3/4" basis).	(S)	.5	(X)	(2)
249960	Hardboard (wood fiberboard)	Mil. sq. ft. (1/8" basis).	(S)	5.9	-	5.1
265001	Paperboard boxes and containers		(X)	14.1	(X)	9.8
285101	Paints, varnishes, lacquers, shellacs, japans, and enamels	Mil. gal.	**2.9	16.4	**2.8	10.1
307931	Plastics laminated sheets		(X)	2.2	(X)	1.0
229508	Coated or laminated fabric for upholstery	Mil. lin. yd.	(S)	1.4	(S)	.2
321101	Flat glass, plate, float, and sheet	Mil. sq. ft.	(S)	1.6	(X)	(2)
	Mill shapes and forms, except castings:					
	Carbon steel, including wrought iron:					
331012	Sheet and strip	1,000 s. tons.	*651.7	214.3	*625.4	119.4
331019	All other carbon steel mill shapes and forms, including tubing		(S)	33.3	**54.3	13.7
331020	Alloy steel mill shapes and forms, except stainless		(S)	6.0	(S)	11.4
331031	Stainless steel mill shapes and forms	1,000 s. tons.	(S)	7.6	**1.8	2.9
335001	Aluminum and aluminum-base alloy mill shapes and forms	Mil. lb.	(S)	12.8	-	-
330120	Copper and copper-base materials, sheet, strip, plate, bar, tubing, and castings	Mil. lb.	**8.5	6.2	(X)	(2)
342901	Furniture and builders hardware, including cabinet hardware, casters, glides, handles, hinges, locks, etc.		(X)	15.7	(X)	10.7
307951	Plastics furniture parts and components		(X)	1.7	(X)	1.3
970099	All other materials and components, parts, containers, and supplies		(X)	5 88.8	(X)	2 50.9
971000	Materials, parts, containers, and supplies, n.s.k.[3]		(X)	117.1	(X)	36.9
	INDUSTRY 2591, DRAPERY HARDWARE AND WINDOW BLINDS AND SHADES					
	Materials, parts, containers, and supplies		(X)	290.0	(X)	142.0
	Mill shapes and forms:					
	Carbon steel, including wrought iron:					
331012	Sheet and strip	1,000 s. tons.	90.0	40.8	66.3	16.3
331019	All other carbon steel, including tubing and tin plate		15.0	6.6	(D)	(D)
331025	Alloy steel, including stainless	1,000 s. tons.	1.6	.8	(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil	Million lb.	(D)	(D)	10.5	6.2
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc		13.9	8.9	3.2	1.4
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)	Million lb.	(S)	3.3	**1.1	1.4
229506	Plastic coated fabric and shade cloth	Mil. lin. yd.	(S)	45.3	**17.3	31.6
229801	Cordage	Mil. lin. ft.	(S)	5.8	485.6	2.3
224110	Woven narrow tape and webbing	Mil. lin. ft.	(D)	(D)	**22.7	.7
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes		(X)	10.6	(X)	6 4.0
240012	Wood turnings, lath, and other wood materials		(X)	27.0	(X)	55.2
970099	All other materials, components, parts, containers, and supplies		(X)	64.0		
971000	Materials, components parts, containers, and supplies, n.s.k.[3]		(X)	56.3	(X)	20.8
	INDUSTRY 2599, FURNITURE AND FIXTURES, N.E.C.					
	Materials, parts, containers, and supplies		(X)	255.2	(X)	134.7
242111	Hardwood lumber, rough and dressed	Mil. bd. ft.	(S)	8.2	15.7	3.9
242123	Softwood lumber, rough and dressed	Mil. bd. ft.	*31.7	2.6	13.8	2.7
243540	Hardwood veneer	Mil. sq. ft. (sur. meas.).	(S)	2.7	(S)	.4
243510	Hardwood plywood	Mil. sq. ft. (sur. meas.).	(S)	5.9	7.2	2.9
243601	Softwood plywood	Mil. sq. ft. (3/8" basis).	**21.9	4.0	(S)	2.0
249200	Particleboard (wood)	Mil sq. ft. (3/4" basis).	(S)	5.0	(S)	2.9
249970	Medium density fiberboard (MDF)	Mil. sq. ft. (3/4" basis).	(S)	.4	(NA)	(2)
249960	Hardboard (wood fiberboard)	Mil. sq. ft. (1/8" basis).	(S)	1.9	6.4	1.0
265001	Paperboard boxes and containers		(X)	4.2	(X)	1.5
285101	Paints, varnishes, lacquers, shellacs, japans, and enamels	1,000 gals.	(S)	2.6	561.0	1.6
307931	Plastics laminated sheets		(X)	7.0	(X)	4.9
229508	Coated or laminated fabric for upholstery	Mil. lin. yd.	(S)	8.1	2.9	6.1
321101	Flat glass, plate, float, and sheet	Mil. sq. ft.	5.8	.3	(NA)	(2)
	Mill shapes and forms, except castings:					
	Carbon steel, including wrought iron:					
331012	Sheet and strip	1,000 s. tons.	(S)	18.4	35.6	7.2
331019	All other carbon steel, including tubing	1,000 s. tons.	(S)	10.3	(S)	2.6

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity[1]	Delivered cost (million dollars)
	INDUSTRY 2599, FURNITURE AND FIXTURES, N.E.C.--Con.					
	Mill shapes and forms, except castings--Con.					
331020	Alloy steel mill shapes and forms, except stainless	1,000 s. tons	(S)	1.6	(S)	3.5
331031	Stainless steel mill shapes and forms	1,000 s. tons	(S)	11.7	(S)	6.8
335001	Aluminum and aluminum-base alloy mill shapes and forms	Million lb	(S)	8.0	(S)	1.3
330120	Copper and copper-base materials, sheet, strip, plate, bar, tubing, and castings	Million lb	3.0	.2	(NA)	(2)
342901	Furniture and builders hardware, including cabinet hardware, casters, glides, handles, hinges, locks, etc		(X)	6.1	(X)	3.8
307951	Plastics furniture parts and components		(X)	2.6	(X)	1.0
970099	All other materials and components, parts, containers, and supplies		(X)	75.8	(X)	[2]37.5
971000	Materials, parts, containers, and supplies, n.s.k.[3]		(X)	67.6	(X)	41.4

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or less than half the unit of measure specified.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]For 1972, material codes 249970, 321101, and 330120 were included with material code 970099.

[3]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[4]For 1977, material code 330120 was included with material code 970099 to avoid disclosing operations of individual companies.

[5]For 1977, material code 243540 was included with material code 970099 to avoid disclosing operations of individual companies.

[6]1972 data may not be directly comparable to 1977 data because of revision in description. For 1972, material code 307903 read "plastic parts and accessories."

Pulp, Paper, and Board Mills

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DESCRIPTION OF INDUSTRIES

PULP, PAPER AND BOARD MILLS

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2611	Pulp Mills
2621	Paper Mills, Except Building Paper
2631	Paperboard Mills
2661	Building Paper and Board Mills

The industry statistics (employment, payroll; cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2611, PULP MILLS

This industry comprises establishments primarily engaged in the manufacture of pulp from wood or from other materials such as rags, linters, waste paper, bagasse, and straw. Logging camps operated by pulp mills, and not separately reported are also included in this industry. Establishments primarily engaged in the cutting of pulpwood are classified in Industry 2411, Logging Camps and Logging Contractors; and pulp mills combined with paper mills, paperboard mills, and building paper and board mills, and not separately reported, are classified with the latter in industries 2621, 2631, and 2661, respectively.

The total value of shipments for establishments classified in the Pulp Mills industry amounted to $2,091 million in 1977. The value of shipments of products classified as primary to the industry was $2,466 million. (See the introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this total were bleached sulfate wood pulp for which value of shipments amounted to $1,332 million, and special alpha and dissolving wood pulp which amounted to $571 million in value of shipments. Value added by manufacture was $906 million in 1977. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 16.2 thousand employees. The leading States in employment were Washington, Florida, Georgia, and Maine, accounting for approximately 60 percent of the industry's 1977 employment. Data for Florida and Georgia have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

While there has been no change in the 1977 standard industrial classification system from that used in earlier years, data may not be strictly comparable from 1972 to 1977 because of change of industry classification of a number of establishments between Industry 2621, Paper Mills, Except Building Paper, Industry 2631, Paperboard Mills, and Industry 2611, Pulp Mills. These establishments represent integrated operations (pulp mills and primary paper and board mills at same physical location) at which shipments of pulp are significant. At present, several establishments previously classified in industry 2621 and 2631 in 1972 and 1973 are now classified in industry 2611. Accordingly, any comparison of historical statistics should consider all three of these industries.

No establishments in this industry were excluded from the mail portion of the census. There were no establishments for which administrative records were used.

INDUSTRY 2621, PAPER MILLS, EXCEPT BUILDING PAPER

This industry comprises establishments primarily engaged in the manufacture of paper, except building paper (industry 2661), from wood pulp and other fibers, and which may also manufacture converted paper products. Establishments primarily engaged in the manufacture of converted paper products from purchased paper stock are classified in Industry Group 264, Miscellaneous Converted Paper Products, or Industry Group 256, Paperboard Containers and Boxes.

The total value of shipments for establishments classified in the Paper Mills, Except Building Paper industry amounted to $12,613 million in 1977, an increase of 98 percent from 1972. The value of shipments of products classified as primary to the industry was $12,438 million, an increase of 101 percent from 1972. (See the Introduction for a discussion of the difference

between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were uncoated free sheet for which shipments increased 101 percent. Value added by manufacture, at $5,407 million in 1977, was 86 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 127.0 thousand employees, a decrease of 2 percent from 1972. The leading States in employment were Wisconsin, Maine, Pennsylvania, and New York, accounting for approximately 35 percent of the industry's 1977 employment.

No establishments in this industry were excluded from the mail portion of the census. The data for a small number of establishments whose reports were not received at the time the data were tabulated were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2631, PAPERBOARD MILLS

This industry comprises establishments primarily engaged in the manufacture of paperboard, including paperboard coated on the paperboard machine, from wood pulp, wastepaper, and other fibers; and which may also manufacture converted paperboard products. Pulpmills combined with paperboard mills, and not separately reported, are also included in this industry. Where separately reported, they are classified in industry 2611. Establishments primarily engaged in the manufacture of converted paperboard products from purchased paperboard are classified in Industry Group 264, Miscellaneous Converted Paper Products, and Industry Group 265, Paperboard Containers and Boxes, and building board in Industry 2661, Building Paper and Board Mills.

The total value of shipments for establishments classified in the Paperboard Mills industry amounted to $7,124 million in 1977, an increase of 71 percent from 1972. The value of shipments of products classified as primary to the industry was $6,435 million, an increase of 76 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were bleached packaging and industrial converting paperboard, for which shipments increased 96 percent, and semi chemical paperboard for which shipments increased 80 percent. Value added by manufacture at $3,081 million in 1977, was 54 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 67.6 thousand employees, a decrease of 1 percent from 1972. The leading States in employment were Georgia, Louisiana, Alabama, and Virginia, accounting for approximately 35 percent of the industry's 1977 employment.

No establishments in this industry were excluded from the mail portion of the census. The data for a small number of establishments whose reports were not received at the time the data were tabulated were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for less than 1 percent of total value of shipments.

INDUSTRY 2661, BUILDING PAPER AND BOARD MILLS

This industry comprises establishments primarily engaged in the manufacture of building paper and building board from wood pulp and other fibrous materials. Pulp mills combined with building paper and building board mills, and not separately reported, are also included in this industry; where separately reported, they are classified in Industry 2611, Pulp Mills.

The total value of shipments for establishments classified in the Building Paper and Board Mills industry amounted to $474 million in 1977, an increase of 4 percent from 1972. The value of shipments of products classified as primary to the industry was $514 million, an increase of 28 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The product accounting for a significant portion of this change was construction paper (roofing felts, sheathing paper, etc.), for which shipments increased 66 percent. Value added by manufacture, at $218 million in 1977, was 12 percent under value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 7.0 thousand employees, a decrease of 40 percent from 1972. The leading States in employment were Georgia, New Jersey, Louisiana, and Illinois, accounting for approximately 45 percent of the industry's 1977 employment. Data for Georgia, New Jersey, and Louisiana have been withheld to avoid disclosing operations of individual companies. However, establishments counts and employment size ranges are provided.

No establishments in this industry were excluded from the mail portion of the census. There were no establishments for which administrative records were used.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2611, PULP MILLS																
1977 Census--	26	45	42	16.2	293.2	12.5	25.4	220.7	906.1	1 212.0	2 091.1	301.1	(NA)	257.0	86	72
1976 ASM----	(NA)	(NA)	(NA)	15.7	260.5	12.4	25.5	194.9	974.6	1 087.7	2 055.4	375.0	2 452.1	219.3	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	13.1	191.4	10.2	20.4	142.6	821.0	837.0	1 630.4	294.2	1 917.2	201.0	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	12.0	163.2	9.6	19.5	123.6	779.3	766.1	1 525.2	135.6	1 496.4	142.7	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	10.8	138.2	8.7	18.0	104.1	382.7	464.0	848.5	118.7	1 311.9	8.3	(NA)	(NA)
1972 Census--	46	60	35	10.6	125.7	8.4	17.6	95.0	306.9	388.1	709.9	136.4	1 212.5	78.6	95	59
1971 ASM----	(NA)	(NA)	(NA)	14.5	156.3	11.3	2.3	121.0	466.3	508.3	841.8	135.2	1 636.6	135.8	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	15.6	160.2	12.6	26.5	121.0	466.3	508.3	960.3	121.6	1 576.6	114.3	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	14.9	142.6	12.0	26.0	108.4	362.0	455.2	820.0	132.6	1 342.0	90.3	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	15.4	136.0	12.4	26.6	103.3	361.3	431.2	799.3	77.0	1 261.6	92.6	(NA)	(NA)
1967 Census--	45	61	43	15.1	125.6	12.2	25.4	96.0	333.7	403.2	730.5	121.8	1 201.6	96.7	88	71
1966 ASM----	(NA)	(NA)	(NA)	15.9	123.5	12.7	26.1	92.5	364.5	365.1	725.5	113.3	(NA)	93.0	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	14.8	112.3	12.0	24.8	84.5	346.1	320.1	658.5	112.2	(NA)	76.7	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	15.3	113.6	12.4	25.7	85.0	331.6	328.6	662.8	66.6	950.2	62.2	(NA)	(NA)
1963 Census--	(NA)	45	40	15.1	107.4	12.2	25.2	81.0	295.7	312.6	609.1	38.9	886.8	65.4	88	71
INDUSTRY 2621, PAPER MILLS, EXCEPT BUILDING PAPER																
1977 Census--	172	339	287	127.0	2 167.0	100.4	210.4	1 631.7	5 406.6	7 221.6	12 613.3	1 115.2	(NA)	1 259.5	92	92
1976 ASM----	(NA)	(NA)	(NA)	127.5	1 976.7	100.6	212.3	1 482.8	4 877.8	6 939.8	11 768.2	1 043.5	10 335.2	1 224.4	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	120.9	1 668.0	94.6	195.4	1 233.4	3 973.2	5 737.7	9 650.0	832.0	9 546.5	1 129.3	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	130.4	1 666.2	104.0	222.3	1 266.2	4 346.9	5 689.8	9 941.7	723.1	8 763.3	1 070.4	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	131.2	1 537.6	105.0	226.1	1 171.0	3 416.4	4 084.5	7 514.4	508.3	8 343.2	718.0	(NA)	(NA)
1972 Census--	198	349	295	129.9	1 439.6	103.3	226.0	1 091.8	2 909.3	3 465.5	6 385.2	372.3	8 004.7	678.9	91	93
1971 ASM----	(NA)	(NA)	(NA)	132.0	1 334.0	104.5	224.9	1 003.8	2 614.0	3 229.6	5 825.7	373.7	7 632.4	699.7	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	138.3	1 305.2	110.6	238.7	987.3	2 655.7	3 056.7	5 678.1	503.2	7 290.4	675.4	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	141.9	1 285.5	114.3	255.6	982.5	2 673.0	2 992.9	5 651.1	554.7	6 901.6	618.5	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	139.3	1 184.5	112.5	250.5	906.8	2 477.5	2 707.3	5 174.5	486.9	6 501.1	567.3	(NA)	(NA)
1967 Census--	203	354	313	140.0	1 120.7	112.3	249.2	849.2	2 356.3	2 515.7	4 844.0	581.3	5 987.5	560.3	92	93
1966 ASM----	(NA)	(NA)	(NA)	135.0	1 043.3	109.1	246.2	804.4	2 330.3	2 496.2	4 804.8	575.0	(NA)	511.0	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	132.6	963.3	107.2	238.1	743.3	2 066.2	2 263.7	4 318.2	496.2	(NA)	459.8	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	129.6	917.6	105.8	236.0	709.9	1 974.0	2 078.1	4 000.0	295.6	4 409.7	431.7	(NA)	(NA)
1963 Census--	186	325	313	129.8	877.9	105.6	234.6	682.0	1 857.2	1 971.0	3 824.9	232.8	4 140.9	430.2	90	92
INDUSTRY 2631, PAPERBOARD MILLS																
1977 Census--	117	249	232	67.6	1 175.8	53.0	112.5	888.0	3 080.7	4 049.8	7 124.3	933.7	(NA)	537.5	84	92
1976 ASM----	(NA)	(NA)	(NA)	64.7	1 018.2	51.0	108.6	770.0	3 128.0	3 636.6	6 724.4	844.0	6 916.2	500.7	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	65.0	910.6	51.0	105.1	679.3	2 831.9	3 239.3	6 055.1	806.7	6 477.1	457.9	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	71.6	926.7	56.9	123.6	702.1	2 980.0	3 562.1	6 516.5	636.6	6 162.8	428.1	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	69.5	842.1	55.4	123.2	647.7	2 291.0	2 579.6	4 861.8	344.4	5 398.6	285.4	(NA)	(NA)
1972 Census--	134	273	248	68.5	778.2	54.5	121.2	588.5	1 994.4	2 152.9	4 153.5	313.5	5 158.7	240.4	83	94
1971 ASM----	(NA)	(NA)	(NA)	65.6	679.4	52.4	115.8	511.8	1 644.2	1 885.5	3 536.4	228.1	4 390.2	231.2	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	67.7	646.6	54.4	118.6	491.7	1 659.9	1 771.0	3 416.5	239.3	4 227.0	231.7	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	68.8	613.8	55.6	122.9	473.4	1 692.6	1 741.6	3 434.9	158.1	4 027.9	201.2	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	68.2	578.2	55.1	122.3	442.1	1 568.3	1 582.4	3 154.2	185.2	3 841.5	194.7	(NA)	(NA)
1967 Census--	148	283	264	67.0	533.5	53.8	118.2	405.9	1 508.8	1 402.9	2 907.0	398.6	3 777.3	191.9	84	91
1966 ASM----	(NA)	(NA)	(NA)	65.2	499.3	52.3	116.5	380.1	1 460.5	1 396.5	2 853.4	255.0	(NA)	182.0	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	64.6	469.7	52.2	116.3	360.1	1 382.8	1 274.3	2 652.5	200.1	(NA)	169.6	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	64.2	450.4	52.0	116.3	345.3	1 271.4	1 213.7	2 491.1	214.4	2 778.1	157.0	(NA)	(NA)
1963 Census--	146	271	259	63.4	429.0	51.3	113.1	327.0	1 186.2	1 131.2	2 316.0	159.5	2 561.5	149.9	87	90
INDUSTRY 2661, BUILDING PAPER AND BOARD MILLS																
1977 Census--	22	58	53	7.0	96.9	5.9	12.5	77.9	218.2	254.3	473.7	16.6	(NA)	45.0	93	83
1976 ASM----	(NA)	(NA)	(NA)	7.6	94.1	6.4	13.4	75.8	194.9	235.4	428.7	12.1	338.5	44.1	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	9.4	106.3	7.8	15.9	83.9	237.9	249.4	486.9	26.2	388.9	56.7	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	11.1	120.1	9.3	19.8	98.1	269.6	284.9	546.7	62.6	408.3	55.1	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	11.3	117.4	9.7	21.4	97.2	251.1	238.3	488.9	26.4	370.9	40.8	(NA)	(NA)
1972 Census--	86	92	74	11.6	111.6	9.9	21.4	91.4	246.5	211.8	456.2	18.8	351.5	36.4	85	92
1971 ASM----	(NA)	(NA)	(NA)	12.2	113.6	10.3	22.7	92.3	246.5	218.5	465.7	18.2	368.7	37.3	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	11.8	98.7	9.8	21.0	78.7	205.8	192.7	396.8	17.6	363.7	38.2	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	12.5	98.9	10.5	23.0	80.9	226.0	194.4	418.6	33.0	369.4	34.8	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	11.9	87.2	10.1	21.9	71.1	202.3	176.4	379.2	16.8	402.0	31.5	(NA)	(NA)
1967 Census--	43	84	74	11.7	82.5	10.0	21.5	67.4	183.7	155.6	341.1	20.3	392.1	31.6	92	96
1966 ASM----	(NA)	(NA)	(NA)	12.0	79.7	10.3	22.1	65.2	194.6	162.7	351.2	17.7	(NA)	34.6	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	11.6	73.5	9.8	21.3	59.6	169.3	147.2	316.5	18.0	(NA)	27.8	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	11.5	71.4	9.8	21.2	58.4	165.9	139.4	304.2	12.2	297.2	27.2	(NA)	(NA)
1963 Census--	33	83	77	11.9	69.6	10.2	21.4	56.9	153.1	130.2	281.6	8.1	291.5	26.5	97	88

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2611, PULP MILLS											
1977 Census--	18 154	(NA)	77	2 031	8.68	57	71	(NA)	56 100	32	35.66
1976 ASM----	16 592	156 184	78	2 056	7.64	52	65	119	62 076	26	38.21
1975 ASM----	14 610	146 351	77	2 000	6.99	51	63	117	62 671	23	40.24
1974 ASM----	13 600	124 700	80	2 031	6.33	50	60	98	64 941	20	39.96
1973 ASM----	12 796	121 472	80	2 068	5.78	54	70	154	35 435	36	21.26
1972 Census--	11 858	114 386	79	2 095	5.39	54	72	170	28 952	40	17.43
1971 ASM----	10 779	112 868	77	2 115	4.90	59	78	194	25 324	43	15.36
1970 ASM----	10 269	101 064	80	2 103	4.56	52	69	164	29 891	34	17.59
1969 ASM----	9 570	90 067	80	2 166	4.16	55	72	163	24 295	39	13.92
1968 ASM----	8 831	81 922	80	2 145	3.88	53	70	157	23 461	37	13.58
1967 Census--	8 317	79 576	80	2 081	3.77	55	72	164	22 099	37	13.13
1966 ASM----	7 767	(NA)	79	2 055	3.54	50	67	(NA)	22 924	33	13.96
1965 ASM----	7 587	(NA)	81	2 066	3.40	48	65	(NA)	23 385	32	13.95
1964 ASM----	7 424	62 104	81	2 072	3.30	49	66	143	21 673	34	12.90
1963 Census--	7 112	58 728	80	2 065	3.21	51	68	145	19 582	36	11.73
INDUSTRY 2621, PAPER MILLS, EXCEPT BUILDING PAPER											
1977 Census--	17 057	(NA)	78	2 096	7.75	57	74	(NA)	42 558	40	25.69
1976 ASM----	15 503	81 060	78	2 110	6.98	58	75	87	38 257	40	22.97
1975 ASM----	13 796	78 961	78	2 065	6.31	59	76	98	32 863	41	20.33
1974 ASM----	12 777	67 203	79	2 137	5.69	57	73	88	33 335	38	19.55
1973 ASM----	11 719	63 591	80	2 153	5.17	54	74	111	26 039	45	15.11
1972 Census--	11 082	61 622	79	2 187	4.83	54	76	125	22 396	49	12.87
1971 ASM----	10 106	57 821	79	2 152	4.46	55	78	131	19 803	51	11.62
1970 ASM----	9 437	52 714	79	2 158	4.13	53	76	128	19 202	49	11.12
1969 ASM----	9 059	48 637	80	2 236	3.84	52	75	122	18 837	48	10.45
1968 ASM----	8 503	46 669	80	2 226	3.61	52	75	125	17 785	47	9.89
1967 Census--	8 005	42 767	80	2 219	3.40	51	75	123	16 830	47	9.45
1966 ASM----	7 728	(NA)	80	2 256	3.26	51	73	(NA)	17 261	44	9.46
1965 ASM----	7 264	(NA)	80	2 221	3.12	52	74	(NA)	15 582	46	8.67
1964 ASM----	7 080	34 025	81	2 230	3.00	51	74	110	15 231	46	8.36
1963 Census--	6 763	31 902	81	2 221	2.90	51	74	108	14 308	47	7.91
INDUSTRY 2631, PAPERBOARD MILLS											
1977 Census--	17 387	(NA)	78	2 122	7.89	56	73	(NA)	45 559	38	27.39
1976 ASM----	15 737	106 896	78	2 129	7.09	54	69	102	48 346	32	28.80
1975 ASM----	14 009	99 647	78	2 060	6.46	53	68	106	43 567	32	26.94
1974 ASM----	12 942	86 072	79	2 172	5.68	54	68	94	41 620	31	24.11
1973 ASM----	12 116	77 677	79	2 223	5.25	53	70	111	32 964	36	18.59
1972 Census--	11 360	75 309	79	2 223	4.85	51	70	124	29 115	39	16.45
1971 ASM----	10 356	66 923	79	2 209	4.41	53	72	124	25 064	41	14.19
1970 ASM----	9 550	62 437	80	2 180	4.14	51	70	123	24 518	38	13.99
1969 ASM----	8 921	58 545	80	2 210	3.85	50	68	117	24 601	36	13.77
1968 ASM----	8 478	56 326	80	2 219	3.61	50	68	121	22 995	36	12.82
1967 Census--	7 962	56 377	80	2 197	3.43	48	66	129	22 519	35	12.76
1966 ASM----	7 657	(NA)	80	2 227	3.26	48	66	(NA)	22 400	34	12.53
1965 ASM----	7 270	(NA)	80	2 227	3.09	48	65	(NA)	21 405	33	11.88
1964 ASM----	7 015	43 272	80	2 236	2.96	48	66	111	19 803	35	10.93
1963 Census--	6 766	40 402	80	2 204	2.89	48	67	110	18 709	36	10.48
INDUSTRY 2661, BUILDING PAPER AND BOARD MILLS											
1977 Census--	13 805	(NA)	83	2 117	6.24	53	74	(NA)	31 073	44	17.48
1976 ASM----	12 381	44 539	84	2 093	5.65	54	76	78	25 644	48	14.54
1975 ASM----	11 308	41 372	82	2 038	5.27	51	73	79	25 308	44	14.96
1974 ASM----	10 819	36 783	83	2 129	4.95	52	74	74	24 288	44	13.61
1973 ASM----	10 389	32 823	85	2 206	4.54	48	72	75	22 221	46	11.73
1972 Census--	9 620	30 301	85	2 161	4.27	46	70	77	21 250	45	11.51
1971 ASM----	9 311	30 221	84	2 203	4.06	46	71	79	20 204	46	10.85
1970 ASM----	8 364	30 822	83	2 142	3.74	48	73	91	17 440	47	9.80
1969 ASM----	7 912	29 552	84	2 190	3.51	46	70	88	18 080	43	9.82
1968 ASM----	7 327	33 781	84	2 168	3.24	46	69	106	17 000	43	9.23
1967 Census--	7 051	33 512	85	2 150	3.13	45	69	114	15 700	44	8.54
1966 ASM----	6 641	(NA)	85	2 145	2.95	46	69	(NA)	16 216	40	8.80
1965 ASM----	6 336	(NA)	84	2 173	2.79	46	69	(NA)	14 594	43	7.94
1964 ASM----	6 208	25 843	85	2 163	2.75	45	69	97	14 426	43	7.82
1963 Census--	5 848	24 495	85	2 098	2.65	46	70	103	12 865	45	7.15

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2611, PULP MILLS													
United States	-	**45**	**42**	**16.2**	**293.2**	**12.5**	**25.4**	**220.7**	**906.1**	**1 212.0**	**2 091.1**	**301.1**	**10.6**	**306.9**
New England Division:													
Maine	-	4	4	1.8	29.7	1.5	3.4	23.3	40.7	150.9	186.5	24.6	(NA)	(NA)
East North Central Division:													
Wisconsin	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Atlantic Division:													
North Carolina	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Carolina	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Florida	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East South Central Division:														
Kentucky	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	-	3	3	0.9	11.8	0.4	1.1	6.0	26.9	40.0	64.0	(D)	CC	(D)
Alabama	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Mississippi	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West South Central Division:														
Louisiana	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
Washington	-	7	7	2.8	55.3	2.2	4.3	42.5	171.0	173.6	341.6	69.1	FF	(D)
California	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Alaska	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
INDUSTRY 2621, PAPER MILLS, EXCEPT BUILDING PAPER														
United States	-	**339**	**287**	**127.0**	**2 167.0**	**100.4**	**210.4**	**1 631.7**	**5 406.6**	**7 221.6**	**12 613.3**	**1 115.2**	**129.9**	**2 909.3**
New England Division:														
Maine	-	14	14	12.1	205.2	9.7	21.0	153.9	522.0	702.8	1 222.6	75.5	13.4	276.5
New Hampshire	-	15	11	3.1	40.4	2.6	5.0	30.8	75.6	146.5	221.3	22.0	2.9	41.1
Vermont	-	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Massachusetts	-	40	31	6.3	94.6	4.8	10.4	68.0	178.1	269.0	446.1	14.1	6.5	124.9
Connecticut	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Middle Atlantic Division:														
New York	-	43	35	8.3	130.7	6.6	14.3	100.8	282.2	457.6	736.8	50.7	9.6	186.5
New Jersey	-	12	8	2.1	37.2	1.5	3.4	25.1	71.7	126.7	199.6	6.7	2.5	57.7
Pennsylvania	-	19	18	8.2	150.0	6.6	13.9	106.7	286.6	517.7	798.9	48.4	9.3	181.3
East North Central Division:														
Ohio	-	19	16	7.2	121.3	5.5	12.4	90.8	241.6	363.6	611.0	36.3	FF	(D)
Illinois	-	4	3	0.5	8.7	0.4	0.9	6.6	23.1	31.9	56.2	1.7	CC	(D)
Michigan	-	20	20	7.0	122.3	5.3	11.8	92.4	313.1	441.2	748.4	30.1	FF	(D)
Wisconsin	-	36	36	18.0	302.5	14.2	29.8	229.0	710.7	1 029.9	1 735.8	209.9	FF	(D)
West North Central Division:														
Minnesota	-	6	6	4.3	73.8	3.7	7.3	60.1	173.5	222.8	395.7	21.7	4.3	77.3
South Atlantic Division:														
Delaware	-	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Maryland	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Virginia	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
North Carolina	-	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.9	114.2
South Carolina	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	-	4	4	1.5	25.9	1.1	2.4	18.9	70.5	170.6	240.9	(D)	EE	(D)
Florida	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East South Central Division:														
Kentucky	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Tennessee	-	4	4	2.8	51.0	2.3	4.9	40.0	156.1	177.3	334.5	(D)	FF	(D)
Alabama	-	7	6	8.1	138.0	6.4	13.1	107.0	385.6	340.4	725.9	190.9	7.7	173.5
West South Central Division:														
Arkansas	-	4	4	2.9	53.5	2.4	4.8	42.3	126.0	170.7	298.4	31.3	FF	(D)
Louisiana	-	6	6	3.6	62.3	2.9	6.0	48.0	232.0	219.0	450.9	(D)	FF	(D)
Texas	-	6	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Pacific Division:														
Washington	-	13	12	7.0	133.7	5.6	10.8	104.2	361.4	476.9	843.4	114.6	6.4	162.1
Oregon	-	7	7	3.8	75.7	3.0	5.9	57.6	270.0	262.5	530.6	26.1	FF	(D)
California	-	11	9	1.9	35.9	1.6	3.3	29.5	85.1	164.8	249.4	(D)	CC	(D)
Industry 2621-12, Integrated With a Pulpmill														
United States	-	**121**	**120**	**91.1**	**1 590.7**	**71.6**	**148.8**	**1 189.9**	**4 154.6**	**4 972.1**	**9 111.8**	**898.1**	**95.5**	**2 212.9**
New England Division:														
Maine	-	10	10	10.3	176.9	8.2	17.6	130.9	449.2	543.5	991.2	(D)	11.6	248.5
New Hampshire	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Massachusetts	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Middle Atlantic Division:														
New York	-	10	10	5.2	83.8	4.2	9.0	66.2	189.2	281.3	467.4	38.6	5.7	118.4
Pennsylvania	-	4	4	3.9	82.2	3.1	6.6	55.3	175.9	238.9	410.3	27.8	FF	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
Industry 2621-12, Integrated With a Pulpmill—Con.														
East North Central Division:														
Ohio	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Michigan	-	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Wisconsin	-	19	19	12.8	217.4	9.9	20.8	162.8	508.7	744.1	1 248.3	172.6	FF	(D)
West North Central Division:														
Minnesota	-	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
South Atlantic Division:														
Maryland	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Virginia	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
North Carolina	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
South Carolina	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Florida	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East South Central Division:														
Kentucky	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Tennessee	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Alabama	-	6	6	8.1	138.0	6.4	13.1	107.0	385.6	340.4	725.9	190.9	7.7	173.5
West South Central Division:														
Arkansas	-	4	4	2.9	53.5	2.4	4.8	42.3	126.0	170.7	298.4	31.3	FF	(D)
Louisiana	-	6	6	3.6	62.3	2.9	6.0	48.0	232.0	219.0	450.9	(D)	FF	(D)
Texas	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Pacific Division:														
Washington	-	9	9	6.2	116.7	4.9	9.4	89.9	318.8	399.2	722.9	(D)	5.4	134.1
Oregon	-	7	7	3.8	75.7	3.0	5.9	57.6	270.0	262.5	530.6	26.1	FF	(D)
California	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Industry 2621-14, Not Integrated With a Pulpmill														
United States	-	**218**	**167**	**35.9**	**576.4**	**28.7**	**61.6**	**441.8**	**1 251.9**	**2 249.5**	**3 501.5**	**217.0**	**34.4**	**696.4**
New England Division:														
Maine	-	4	4	1.7	28.3	1.6	3.4	23.1	72.8	159.4	231.4	(D)	1.9	28.0
New Hampshire	-	12	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Vermont	-	10	6	0.7	9.7	0.6	1.2	6.9	24.5	40.3	64.6	(D)	BB	(D)
Massachusetts	-	33	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Connecticut	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	-	33	25	3.1	46.9	2.4	5.3	34.6	93.0	176.3	269.4	12.0	3.9	18.1
New Jersey	-	10	6	1.2	19.3	0.9	1.9	13.0	26.3	73.7	100.4	(D)	CC	(D)
Pennsylvania	-	15	14	4.3	67.8	3.5	7.3	51.4	110.7	278.9	388.6	20.6	FF	(D)
East North Central Division:														
Ohio	-	17	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Illinois	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Michigan	-	16	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Wisconsin	-	17	17	5.2	85.2	4.3	8.9	66.2	202.1	285.8	487.5	(D)	FF	(D)
West North Central Division:														
Minnesota	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Atlantic Division:														
Delaware	-	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Virginia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	(D)
South Carolina	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Georgia	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Division:														
Tennessee	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pacific Division:														
Washington	-	4	3	0.9	17.0	0.7	1.5	14.3	42.6	77.7	120.5	(D)	1.1	28.1
California	-	7	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
INDUSTRY 2631, PAPERBOARD MILLS														
United States	-	**249**	**232**	**67.6**	**1 175.8**	**53.0**	**112.5**	**888.0**	**3 080.7**	**4 049.8**	**7 124.3**	**933.7**	**58.5**	**1 994.4**
New England Division:														
New Hampshire	-	5	4	0.2	2.4	0.2	0.3	1.7	5.7	4.7	10.5	(D)	0.3	7.3
Vermont	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Massachusetts	-	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Connecticut	-	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Middle Atlantic Division:														
New York	-	16	12	1.1	15.0	0.9	2.0	12.1	30.0	38.3	69.0	11.4	EE	(D)
New Jersey	-	17	13	1.4	21.5	1.1	2.5	15.1	38.0	70.2	109.1	(D)	EE	(D)
Pennsylvania	-	16	16	1.8	28.8	1.5	3.2	22.3	58.6	83.2	141.6	3.6	EE	(D)
East North Central Division:														
Ohio	-	20	20	2.7	45.0	2.3	5.2	35.7	102.8	132.3	236.4	18.8	2.8	61.9
Indiana	-	10	10	1.2	17.0	0.9	1.9	12.1	51.9	57.3	109.1	7.8	EE	(D)
Illinois	-	8	8	1.4	21.3	1.1	2.5	16.5	42.9	53.8	97.0	14.7	1 8	34 3
Michigan	-	13	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	72 0
Wisconsin	-	6	6	1.2	18.2	0.9	1.8	13.5	49.0	41.1	89.7	(D)	EE	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 2631, PAPERBOARD MILLS—Con.														
West North Central Division:														
Minnesota	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Iowa	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Atlantic Division:														
Maryland	-	3	3	0.4	5.1	0.3	0.7	4.0	12.0	10.9	22.8	0.4	BB	(D)
Virginia	-	9	9	4.7	81.0	3.5	7.3	57.6	253.2	231.2	483.3	47.1	4.8	134.9
West Virginia	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
North Carolina	-	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
South Carolina	-	6	5	3.9	65.7	3.0	5.7	45.8	151.3	206.0	358.8	17.2	3.7	110.7
Georgia	-	12	12	7.2	122.7	5.5	11.6	94.4	306.9	482.3	785.7	86.5	7.5	267.1
Florida	-	6	6	3.0	53.2	2.4	5.1	42.5	102.8	204.6	306.4	23.4	3.7	104.9
East South Central Division:														
Tennessee	-	8	7	1.4	22.9	1.1	2.3	16.1	78.3	92.5	170.7	27.3	EE	(D)
Alabama	-	10	9	4.8	86.3	3.8	8.1	67.9	293.1	327.6	619.6	35.3	FF	(D)
Mississippi	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West South Central Division:														
Arkansas	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Louisiana	-	7	7	5.2	96.8	4.2	8.9	74.3	288.5	334.6	624.3	133.1	FF	(D)
Oklahoma	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Texas	-	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Mountain Division:														
Montana	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Idaho	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Arizona	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Oregon	-	7	6	2.0	40.3	1.7	3.3	32.3	130.3	179.2	310.5	55.7	1.8	93.2
California	-	16	15	2.7	48.0	2.2	4.3	38.2	113.2	177.8	291.6	26.1	FF	(D)
Industry 2631-12, Integrated With a Pulpmill														
United States	-	82	82	48.4	876.0	37.6	78.2	657.2	2 451.5	3 218.9	5 663.3	824.6	45.9	1 520.6
New England Division:														
Vermont	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
East North Central Division:														
Ohio	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Indiana	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Michigan	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Wisconsin	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West North Central Division:														
Minnesota	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Atlantic Division:														
Virginia	-	5	5	4.0	70.0	2.9	5.9	49.1	228.3	202.2	429.9	45.9	FF	(D)
North Carolina	-	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
South Carolina	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Georgia	-	8	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Florida	-	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
East South Central Division:														
Tennessee	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Alabama	-	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Mississippi	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West South Central Division:														
Arkansas	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Louisiana	-	7	7	5.2	96.8	4.2	8.9	74.3	288.5	334.6	624.3	133.1	FF	(D)
Oklahoma	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Texas	-	3	3	2.9	58.5	1.6	3.5	29.4	132.1	167.1	299.3	(D)	FF	(D)
Mountain Division:														
Idaho	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arizona	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
Washington	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Oregon	-	6	6	2.0	40.3	1.7	3.3	32.3	130.3	179.2	310.5	55.7	EE	(D)
California	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Industry 2631-14, Not Integrated With a Pulpmill														
United States	-	166	150	19.2	299.7	15.4	34.3	230.8	829.2	830.9	1 461.0	109.1	22.5	474.0
New England Division:														
New Hampshire	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	7.3
Massachusetts	-	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Connecticut	-	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Middle Atlantic Division:														
New York	-	16	12	1.1	15.0	0.9	2.0	12.1	30.0	38.3	69.0	11.4	EE	(D)
New Jersey	-	17	13	1.4	21.5	1.1	2.5	15.1	38.0	70.2	109.1	(D)	EE	(D)
Pennsylvania	-	15	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Industry 2631-14, Not Integrated With a Pulpmill—Con.													
East North Central Division:													
Ohio	-	18	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Indiana	-	9	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Illinois	-	8	8	1.4	21.3	1.1	2.5	16.5	42.9	53.8	97.0	14.7	EE	(D)
Michigan	-	10	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Wisconsin	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Atlantic Division:														
Maryland	-	3	3	0.4	5.1	0.3	0.7	4.0	12.0	10.9	22.8	0.4	BB	(D)
Virginia	-	4	4	0.7	11.0	0.6	1.4	8.4	24.9	29.0	53.4	(D)	BB	(D)
West Virginia	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
North Carolina	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
South Carolina	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
East South Central Division:														
Tennessee	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Alabama	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Texas	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division:														
California	-	11	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
INDUSTRY 2661, BUILDING PAPER AND BOARD MILLS														
United States	-	**58**	**53**	**7.0**	**96.9**	**5.9**	**12.5**	**77.9**	**218.2**	**254.3**	**473.7**	**16.6**	**11.6**	**246.5**
New England Division:														
Maine	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Rhode Island	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Middle Atlantic Division:														
New York	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
New Jersey	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Pennsylvania	-	5	5	0.5	6.5	0.4	0.8	4.9	17.0	23.5	39.9	0.8	CC	(D)
East North Central Division:														
Illinois	-	7	7	0.6	9.3	0.5	1.1	7.8	22.5	25.3	48.9	2.1	0.7	13.0
South Atlantic Division:														
Virginia	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Georgia	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East South Central Division:														
Alabama	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Mississippi	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Louisiana	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Oklahoma	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Pacific Division:														
Oregon	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
California	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Industry 2661-12, Integrated With a Pulpmill														
United States	-	**35**	**35**	**5.7**	**79.5**	**4.8**	**10.3**	**65.0**	**176.6**	**203.7**	**381.9**	**10.7**	**9.0**	**200.6**
New England Division:														
Maine	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Rhode Island	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Middle Atlantic Division:														
New Jersey	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pennsylvania	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
East North Central Division:														
Illinois	-	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Atlantic Division:														
Virginia	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Georgia	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East South Central Division:														
Alabama	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Mississippi	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Louisiana	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Oklahoma	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Pacific Division:														
Oregon	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
California	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Industry 2661-14, Not Integrated With a Pulpmill														
United States	-	**23**	**18**	**1.3**	**17.4**	**1.1**	**2.1**	**12.9**	**41.6**	**50.6**	**91.9**	**6.0**	**2.6**	**45.8**
Middle Atlantic Division:														
New York	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
New Jersey	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Pennsylvania	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Pulpmills (SIC 2611)	Papermills, except building paper (SIC 2621)			Paperboard mills (SIC 2631)			Building paper and board mills (SIC 2661)		
			Total	Integrated with a pulpmill facility (SIC 2621-12)	Not integrated with a pulpmill facility (SIC 2621-14)	Total	Integrated with a pulpmill facility (SIC 2631-14)	Not integrated with a pulpmill facility (SIC 2631-14)	Total	Integrated with a pulpmill facility (SIC 2661-12)	Not integrated with a pulpmill facility (SIC 2661-14)
Primary product specialization ratio[1]	percent	86	92	(NA)	(NA)	84	(NA)	(NA)	93	(NA)	(NA)
Coverage ratio[2]	do	72	92	(NA)	(NA)	100	(NA)	(NA)	87	(NA)	(NA)
All establishments	number	45	339	121	218	249	82	167	58	35	23
With 1 to 19 employees	do	3	52	1	51	17	–	17	5	–	5
With 20 to 99 employees	do	12	66	6	60	86	3	83	31	16	15
With 100 employees or more	do	30	221	114	107	146	79	67	22	19	3
All employees, average for year	1,000	16.2	127.0	91.1	35.9	67.6	48.4	19.2	7.0	5.7	1.3
Payroll for year, all employees	mil. dol.	293.2	2 167.0	1 590.7	576.4	1 175.8	876.0	299.7	96.9	79.5	17.4
Production workers:											
Average for year	1,000	12.5	100.4	71.6	28.7	53.0	37.6	15.4	5.9	4.8	1.1
March	do	12.4	98.4	70.1	28.3	52.3	36.9	15.4	5.6	4.8	0.7
May	do	12.5	100.0	71.3	28.7	52.9	37.4	15.5	6.1	5.0	1.1
August	do	12.7	102.2	73.1	29.1	53.8	38.3	15.4	6.1	4.9	1.2
November	do	12.4	100.8	72.0	28.8	53.0	37.6	15.4	5.8	4.7	1.2
Hours	millions	25.4	210.4	148.8	61.6	112.5	78.2	34.3	12.5	10.3	2.1
January to March	do	6.4	52.4	37.1	15.3	28.1	19.6	8.5	2.8	2.4	0.4
April to June	do	6.5	53.1	37.6	15.5	28.5	19.7	8.8	3.3	2.7	0.6
July to September	do	6.3	52.5	37.3	15.2	28.1	19.6	8.5	3.3	2.7	0.6
October to December	do	6.2	52.4	36.9	15.5	27.7	19.2	8.5	3.1	2.6	0.6
Wages	mil. dol.	220.7	1 631.7	1 189.9	441.8	888.0	657.2	230.8	77.9	65.0	12.9
Cost of materials, etc.	do	1 212.0	7 221.6	4 972.1	2 249.5	4 049.8	3 218.9	830.9	254.3	203.7	50.6
Materials, parts, containers, etc., consumed	do	978.3	5 845.6	3 912.1	1 933.5	2 989.8	2 389.4	600.4	170.8	129.6	41.2
Resales	do	7.8	48.6	38.7	10.0	47.6	46.3	1.3	9.7	9.7	(Z)
Fuels consumed	do	151.8	883.4	692.7	190.6	780.3	615.3	164.9	47.5	41.4	6.1
Purchased electric energy	do	47.4	408.6	297.9	110.8	207.6	145.3	62.2	25.9	22.6	3.3
Contract work	do	26.6	35.3	30.7	4.6	24.6	22.5	2.0	0.4	0.4	(Z)
Value of shipments, including resales	do	2 091.1	12 613.3	9 111.8	3 501.5	7 124.3	5 663.3	1 461.0	473.7	381.9	91.9
Value of resales	do	8.5	55.8	44.7	11.0	50.0	48.6	1.4	11.4	11.4	(Z)
Value added by manufacture	do	906.1	5 406.6	4 154.6	1 251.9	3 080.7	2 451.5	629.2	218.2	176.6	41.6
Manufacturers' inventories:											
Beginning of year	do	223.6	1 209.8	806.9	402.9	509.1	416.6	92.5	43.1	35.3	7.8
Finished products	do	83.6	350.2	198.7	151.5	125.2	99.4	25.8	18.5	17.0	1.5
Work in process	do	12.3	112.1	75.8	36.3	16.3	10.7	5.6	3.7	2.7	1.0
Materials, supplies, fuel, etc.	do	127.7	747.5	532.4	215.1	367.6	306.4	61.2	21.0	15.6	5.4
End of year	do	257.0	1 259.5	858.1	401.4	537.5	439.7	97.8	45.0	36.7	8.3
Finished products	do	95.7	346.5	201.4	145.1	130.4	105.1	25.2	17.4	15.4	2.0
Work in process	do	27.1	130.7	88.1	42.7	17.3	12.1	5.2	3.6	2.7	0.9
Materials, supplies, fuel, etc.	do	134.2	782.3	568.7	213.6	389.8	322.4	67.4	24.0	18.6	5.4
Capital expenditures for plant and equipment	do	301.5	1 227.8	964.8	263.0	950.8	833.4	117.4	19.4	10.8	8.6
New capital expenditures	do	301.1	1 115.2	898.1	217.0	933.7	824.6	109.1	16.6	10.7	6.0
New buildings and other structures	do	13.0	70.3	49.6	20.7	71.4	55.4	16.0	2.2	0.8	1.4
New machinery and equipment	do	288.0	1 044.8	848.5	196.3	862.3	769.2	93.1	14.4	9.9	4.6
Used capital expenditures	do	0.4	112.6	66.6	46.0	17.1	8.8	8.4	2.7	0.1	2.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Pulpmills (SIC 2611)		Papermills, except building paper (SIC 2621)		Paperboard mills (SIC 2631)		Building paper and board mills (SIC 2661)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	7.0	1	16.2	2	7.5	2	1.7	4
Response coverage ratio[2] (percent)	75	(X)	72	(X)	60	(X)	60	(X)
Machinery	41.3	5	157.4	1	125.8	2	9.6	7
Response coverage ratio[2] (percent)	80	(X)	75	(X)	64	(X)	64	(X)
Cost of purchased communication services	1.7	5	14.8	2	9.5	2	1.0	4
Response coverage ratio[2] (percent)	68	(X)	73	(X)	60	(X)	67	(X)
Rental payments	10.1	1	51.4	1	29.2	2	2.4	3
Buildings and other structures	1.0	7	7.3	3	3.3	7	0.9	3
Machinery and equipment	9.1	2	44.1	2	25.9	1	1.5	5
Supplemental labor costs	58.6	1	457.1	1	242.8	1	22.1	1
Legal costs	22.1	1	172.0	1	93.4	1	9.1	1
Voluntary costs	36.5	1	285.1	1	149.3	1	13.0	1
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	286.8	1	1,558.8	1	902.3	1	69.5	2
New capital expenditures	13.4	7	70.4	2	75.5	8	2.2	4
Used capital expenditures	-	(X)	12.4	1	2.5	1	0.5	1
Retirements	(0.5)	21	13.5	2	12.1	1	1.0	8
End of year	299.6	2	1,628.1	1	967.5	1	71.2	2
Machinery and equipment:								
Beginning of year	2,146.2	1	8,731.5	1	6,142.0	1	241.4	1
New capital expenditures	288.6	1	1,046.3	1	875.9	2	14.4	8
Automobiles, trucks, etc., for highway use[3]	(0.9)	(A)	(10.7)	(A)	(3.2)	(A)	(0.1)	(A)
Computers and peripheral data processing equipment[3]	(1.8)	(A)	(6.0)	(A)	(2.7)	(A)	-	(X)
All other[3]	272.4	7	945.9	2	776.2	3	(14.2)	(A)
New machinery and equipment, n.s.k.[4]	(13.6)	(A)	(83.6)	24	(93.8)	21	(0.1)	(A)
Used capital expenditures	(0.7)	53	100.4	1	14.6	1	2.3	1
Retirements	22.9	4	109.0	1	145.0	1	9.0	2
End of year	2,412.6	1	9,769 1	1	6,887.6	1	249.0	1
Total gross value of depreciable assets:								
Beginning of year	2,433.0	1	10,290.3	1	7,044.3	1	310.9	1
New capital expenditures	302.0	2	1,116.7	1	951.4	2	16.6	8
Used capital expenditures	(0.7)	53	112.8	1	17.1	1	2.7	1
Retirements	23.5	4	122.6	1	157.7	1	10.0	2
End of year	2,712.2	1	11,397.2	1	1,855.1	1	320.2	1
Depreciation charges during 1977	112.0	1	507.9	1	394.0	1	20.1	1
Buildings and other structures	9.7	2	67.2	1	32.8	1	2.6	2
Machinery and equipment	102.3	1	440.6	1	361.2	1	17.5	1

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
INDUSTRY 2611, PULP MILLS												
Total	-	**45**	**16.2**	**293.2**	**12.5**	**25.4**	**220.7**	**906.1**	**1 212.0**	**2 091.1**	**301.1**	**257.0**
Establishments with an average of—												
10 to 19 employees	-	3	(0.5)	(9.4)	(0.5)	(1.1)	(6.5)	(28.7)	(55.5)	(84.0)	(4.0)	(5.2)
20 to 49 employees	-	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	-	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	-	8	1.3	23.9	1.1	2.2	18.3	69.4	117.0	190.0	13.2	23.1
250 to 499 employees	-	7	2.3	49.6	1.8	3.9	38.0	200.2	268.0	453.1	40.4	59.6
500 to 999 employees	-	12	8.3	154.1	6.2	12.7	112.6	392.6	563.6	937.9	198.7	124.9
1,000 to 2,499 employees	-	3	3.6	56.3	3.0	5.6	45.3	215.3	208.0	426.2	44.7	44.2
INDUSTRY 2621, PAPER MILLS, EXCEPT BUILDING PAPER												
Total	-	**339**	**127.0**	**2 167.0**	**100.4**	**210.4**	**1 631.7**	**5 406.6**	**7 221.6**	**12 613.3**	**1 115.2**	**1 259.5**
Establishments with an average of—												
1 to 4 employees	E7	35	(Z)	0.4	(Z)	(Z)	0.3	0.4	1.1	2.1	(41.6)	0.2
5 to 9 employees	E5	7	(Z)	0.8	(Z)	0.1	0.6	2.1	1.9	3.9	(D)	0.4
10 to 19 employees	E1	10	0.1	1.8	0.1	0.2	1.3	4.0	5.3	9.3	1.7	0.6
20 to 49 employees	-	32	1.0	14.2	0.9	1.9	11.2	31.9	50.3	82.9	4.6	8.3
50 to 99 employees	-	34	2.5	37.0	2.0	4.4	27.5	81.5	141.6	221.1	10.0	23.0
100 to 249 employees	-	79	13.0	201.2	10.0	21.5	149.4	473.8	815.4	1 289.5	95.7	152.7
250 to 499 employees	-	49	16.6	275.7	13.3	28.2	211.2	620.0	988.2	1 606.1	132.2	170.7
500 to 999 employees	-	59	41.1	721.2	33.0	69.8	559.3	1 972.1	2 680.6	4 638.3	340.7	436.3
1,000 to 2,499 employees	-	33	(52.5)	(914.8)	(41.0)	(84.3)	(670.8)	(2 220.8)	(2 537.3)	(4 760.1)	(488.7)	(467.3)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Industry 2621-12, Integrated With a Pulpmill												
Total	-	**121**	**91.1**	**1 590.7**	**71.6**	**148.8**	**1 189.9**	**4 154.6**	**4 972.1**	**9 111.8**	**898.1**	**858.1**
Establishments with an average of—												
10 to 19 employees	-	7	(3.5)	(56.8)	(2.7)	(5.6)	(42.1)	(130.4)	(200.5)	(329.8)	(30.8)	(35.9)
100 to 249 employees	-	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	-	17	5.8	101.4	4.7	9.9	78.1	244.7	372.5	617.9	75.0	53.3
500 to 999 employees	-	48	33.6	585.5	26.8	56.0	452.1	1 664.7	2 074.3	3 729.2	792.2	348.4
1,000 to 2,499 employees	-	30	(48.2)	(846.9)	(37.3)	(77.3)	(617.6)	(2 114.9)	(2 324.9)	(4 435.3)	(D)	(420.6)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Industry 2621-14, Not Integrated With a Pulpmill												
Total	-	**218**	**35.9**	**576.4**	**28.7**	**61.6**	**441.8**	**1 251.9**	**2 249.5**	**3 501.5**	**217.0**	**401.4**
Establishments with an average of—												
1 to 4 employees	E7	35	(Z)	0.4	(Z)	(Z)	0.3	0.4	1.1	2.1	(122.8)	0.2
5 to 9 employees	E5	7	(Z)	0.8	(Z)	0.1	0.6	2.1	1.9	3.9	(D)	0.4
10 to 19 employees	-	9	(13.2)	(197.2)	(10.4)	(22.4)	(147.4)	(460.9)	(812.2)	(1 273.3)	(D)	(148.7)
20 to 49 employees	-	29	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	-	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	-	61	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	-	32	10.8	174.3	8.5	18.3	133.1	375.3	615.7	988.2	57.1	117.4
500 to 999 employees	-	11	7.5	135.8	6.1	13.8	107.2	307.4	606.3	909.2	27.0	88.0
1,000 to 2,499 employees	-	3	4.4	67.9	3.6	7.0	53.3	105.9	212.4	324.8	10.1	46.7
INDUSTRY 2631, PAPERBOARD MILLS												
Total	-	**249**	**67.6**	**1 175.8**	**53.0**	**112.5**	**888.0**	**3 080.7**	**4 049.8**	**7 124.3**	**933.7**	**537.5**
Establishments with an average of—												
1 to 4 employees	E8	12	(Z)	(0.8)	(Z)	(0.1)	(0.6)	(2.5)	(2.5)	(4.3)	(29.3)	(0.4)
5 to 9 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E1	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	-	24	(5.6)	(81.8)	(4.7)	(10.2)	(63.8)	(183.4)	(232.6)	(415.2)	(D)	(27.7)
50 to 99 employees	-	62	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	-	70	10.9	172.3	8.6	18.8	129.0	421.7	548.3	969.6	96.1	63.8
250 to 499 employees	-	37	13.6	250.8	10.5	22.5	189.9	711.9	967.5	1 682.9	133.5	111.8
500 to 999 employees	-	24	16.5	302.4	13.2	27.8	238.0	880.7	1 190.5	2 063.3	291.8	153.4
1,000 to 2,499 employees	-	15	21.0	367.5	16.1	33.1	266.6	882.0	1 108.5	1 989.1	327.2	180.4
Industry 2631-12, Integrated With a Pulpmill												
Total	-	**82**	**48.4**	**876.0**	**37.6**	**78.2**	**657.2**	**2 451.5**	**3 218.9**	**5 663.3**	**824.6**	**439.7**
Establishments with an average of—												
100 to 249 employees	-	21	3.2	55.7	2.4	4.9	38.9	142.6	209.6	354.0	101.8	29.5
250 to 499 employees	-	24	8.9	169.1	6.8	14.4	127.7	581.2	753.7	1 337.9	107.0	82.7
500 to 999 employees	-	22	15.4	283.8	12.3	25.8	224.1	843.2	1 146.9	1 982.3	288.6	147.1
1,000 to 2,499 employees	-	15	21.0	367.5	16.1	33.1	266.6	882.0	1 108.5	1 989.1	327.2	180.4
Industry 2631-14, Not Integrated With a Pulpmill												
Total	-	**167**	**19.2**	**299.7**	**15.4**	**34.3**	**230.8**	**829.2**	**830.9**	**1 461.0**	**109.1**	**97.8**
Establishments with an average of—												
1 to 4 employees	E8	12	(Z)	(0.8)	(Z)	(0.1)	(0.6)	(2.5)	(2.5)	(4.3)	(29.3)	(0.4)
5 to 9 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E1	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	-	23	(5.5)	(80.2)	(4.5)	(10.0)	(62.6)	(180.9)	(228.4)	(408.8)	(D)	(23.7)
50 to 99 employees	-	60	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	-	52	7.9	118.3	6.3	14.1	91.4	279.1	342.8	622.0	50.2	38.4
250 to 499 employees	-	13	(5.8)	(100.4)	(4.6)	(10.1)	(76.1)	(168.2)	(257.4)	(426.0)	(29.7)	(35.3)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2661, BUILDING PAPER AND BOARD MILLS												
Total	-	58	7.0	96.9	5.9	12.5	77.9	218.2	254.3	473.7	16.6	45.0
Establishments with an average of—												
5 to 9 employees	-	1	(0.1)	(0.8)	(0.1)	(0.1)	(0.7)	(1.7)	(1.3)	(3.1)	(Z)	(0.3)
10 to 19 employees	-	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	-	14	0.4	4.1	0.4	0.7	3.3	7.8	7.5	15.4	0.6	0.6
50 to 99 employees	-	17	1.2	16.8	1.0	2.1	13.6	47.2	47.2	94.3	5.6	8.0
100 to 249 employees	-	17	2.7	38.5	2.3	4.9	30.6	85.9	111.0	197.9	6.4	16.5
250 to 499 employees	-	3	(2.6)	(36.8)	(2.2)	(4.6)	(29.7)	(75.6)	(87.1)	(163.0)	(3.1)	(19.7)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Industry 2661-12, Integrated With a Pulpmill												
Total	-	35	5.7	79.5	4.8	10.3	65.0	176.6	203.7	381.9	10.7	36.7
Establishments with an average of—												
20 to 49 employees	-	1	(1.1)	(15.3)	(0.9)	(2.0)	(12.5)	(42.3)	(40.5)	(83.2)	(3.2)	(6.6)
50 to 99 employees	-	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	-	15	(4.6)	(64.2)	(3.9)	(8.3)	(52.5)	(134.4)	(163.2)	(298.7)	(7.4)	(30.1)
250 to 499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Industry 2661-14, Not Integrated With a Pulpmill												
Total	-	23	1.3	17.4	1.1	2.1	12.9	41.6	50.6	91.9	5.0	8.3
Establishments with an average of—												
5 to 9 employees	-	1	(0.1)	(0.8)	(0.1)	(0.1)	(0.7)	(1.7)	(1.3)	(3.1)	(Z)	(0.3)
10 to 19 employees	-	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	-	13	(1.2)	(16.7)	(0.9)	(2.0)	(12.2)	(39.8)	(49.3)	(88.8)	(5.9)	(8.0)
50 to 99 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2611	**Pulp mills:**										
	Entire industry	45	16.2	293.2	12.5	25.4	220.7	906.1	1 212.0	2 091.1	301.1
	Establishments with 75 percent specialization or more	40	12.6	229.7	9.7	19.4	174.1	702.1	906.3	1 581.3	259.1
26111	Special alpha and dissolving wood pulp:										
	Establishments with this product class primary	8	5.8	104.2	4.8	8.8	82.5	351.9	308.0	650.0	95.0
	Establishments with 75 percent specialization or more in class	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26112	Other pulp (including pulp mill byproducts), except tall: oil:										
	Establishments with this product class primary	37	10.3	189.0	7.8	16.7	138.2	554.2	904.0	1 441.1	206.1
	Establishments with 75 percent specialization or more in class	31	5.7	106.8	4.2	9.0	77.5	281.5	514.0	780.9	146.3
2621	**Paper mills, except building paper:**										
	Entire industry	339	127.0	2 167.0	100.4	210.4	1 631.7	5 406.6	7 221.6	12 613.3	1 115.2
	Establishments with 75 percent specialization or more	304	111.3	1 903.2	88.0	185.4	1 434.6	4 767.8	6 262.4	11 016.3	1 005.6
26211	Newsprint:										
	Establishments with this product class primary	13	6.7	124.4	5.2	10.9	93.5	387.7	444.2	832.7	116.9
	Establishments with 75 percent specialization or more in class	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26212	Uncoated groundwood paper:										
	Establishments with this product class primary	11	6.0	104.0	4.9	10.3	81.7	289.7	343.2	635.6	77.2
	Establishments with 75 percent specialization or more in class	5	1.1	16.4	0.9	2.1	13.4	26.5	69.3	95.9	9.7
26213	Clay coated printing and converting paper:										
	Establishments with this product class primary	28	25.8	446.6	20.7	43.4	342.8	1 077.9	1 436.0	2 509.3	117.7
	Establishments with 75 percent specialization or more in class	15	12.3	211.4	9.9	20.3	161.0	552.3	701.5	1 253.6	44.1
26214	Uncoated free sheet:										
	Establishments with this product class primary	66	37.5	638.3	29.5	62.8	475.7	1 472.7	1 990.1	3 459.6	328.0
	Establishments with 75 percent specialization or more in class	44	21.3	369.8	16.5	35.2	268.9	741.1	1 099.4	1 841.2	139.9
26215	Bleached bristols, except cotton fiber index and bogus:										
	Establishments with this product class primary	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26216	Cotton fiber paper and thin paper:										
	Establishments with this product class primary	21	7.5	112.3	5.7	12.0	75.9	211.8	280.1	491.5	21.2
	Establishments with 75 percent specialization or more in class	15	5.6	84.3	4.2	8.6	57.2	153.5	177.8	330.1	(D)
26217	Unbleached kraft packaging and industrial converting paper:										
	Establishments with this product class primary	22	14.0	242.2	11.4	22.8	191.0	647.1	790.2	1 432.4	107.3
	Establishments with 75 percent specialization or more in class	9	3.2	54.2	2.7	5.5	44.7	150.0	163.0	313.1	35.0
26218	Packaging and industrial converting paper, except unbleached: kraft:										
	Establishments with this product class primary	11	2.6	45.8	2.0	4.4	33.8	73.1	132.5	205.1	(D)
	Establishments with 75 percent specialization or more in class	7	1.6	27.7	1.3	2.7	21.1	43.2	74.5	115.9	(D)
26219	Special industrial paper:										
	Establishments with this product class primary	46	6.4	92.0	4.7	9.8	63.4	214.2	277.1	487.2	31.2
	Establishments with 75 percent specialization or more in class	37	3.5	47.2	2.7	5.3	33.2	111.0	144.9	254.6	13.4
2631	**Paperboard mills:**										
	Entire industry	249	67.6	1 175.8	53.0	112.5	888.0	3 080.7	4 049.8	7 124.3	933.7
	Establishments with 75 percent specialization or more	216	45.9	787.3	35.4	75.9	585.9	2 149.9	2 717.3	4 869.5	650.0
26311	Unbleached kraft packaging and industrial converting paperboard										
	Establishments with this product class primary	39	26.8	488.4	20.8	42.7	369.5	1 378.0	1 950.6	3 322.3	433.6
	Establishments with 75 percent specialization or more in class	21	10.9	199.6	8.1	16.7	142.7	612.0	796.2	1 413.0	172.4
26312	Bleached packaging and industrial converting paperboard:										
	Establishments with this product class primary	16	15.2	278.2	11.8	25.0	205.5	773.9	911.6	1 684.0	317.2
	Establishments with 75 percent specialization or more in class	7	6.2	112.4	4.4	9.0	74.1	346.6	337.7	686.5	(D)
26313	Semichemical paperboard:										
	Establishments with this product class primary	15	3.9	66.7	3.0	6.2	48.6	197.6	218.4	416.6	64.7
	Establishments with 75 percent specialization or more in class	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26314	Recycled paperboard:										
	Establishments with this product class primary	151	20.2	322.7	16.4	36.4	253.2	703.7	936.3	1 640.2	114.1
	Establishments with 75 percent specialization or more in class	141	17.3	274.2	14.1	31.4	215.2	606.7	804.8	1 411.3	86.0
26318	Wet machine board:										
	Establishments with this product class primary	15	1.5	19.5	1.0	2.1	11.0	28.1	32.5	60.6	3.9
	Establishments with 75 percent specialization or more in class	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2661	**Building paper and board mills:**										
	Entire industry	58	7.0	96.9	5.9	12.5	77.9	218.2	254.3	473.7	16.6
	Establishments with 75 percent specialization or more	55	6.2	84.8	5.2	10.9	68.5	191.8	219.6	412.6	14.5
26611	Insulating board:										
	Establishments with this product class primary	14	3.7	49.4	3.1	6.4	39.3	101.2	121.4	223.1	5.0
	Establishments with 75 percent specialization or more in class	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26612	Construction paper:										
	Establishments with this product class primary	45	3.3	47.6	2.8	6.0	38.7	117.3	133.4	251.4	11.6
	Establishments with 75 percent specialization or more in class	44	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis — Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2611	Pulp mills.....1977..	2,091.1	1,780.9	291.3	18.9	86	2,466.4	1,780.9	685.5	72
	1972..	709.9	688.4	35.6	5.9	95	1,132.4	668.4	464.0	59
	1967..	730.5	642.6	86.0	1.9	88	904.8	642.6	262.2	71
2621	Paper mills, except building paper.....1977..	12,613.3	11,491.7	1,014.3	107.3	92	12,438.2	11,491.7	946.5	92
	1972..	6,385.2	5,777.3	566.4	41.5	91	6,182.2	5,777.3	404.9	93
	1967..	4,844.0	4,417.7	377.7	48.6	92	4,739.5	4,417.7	321.8	93
2631	Paperboard mills.....1977..	7,124.3	5,934.7	1,129.1	60.5	84	6,434.7	5,934.7	499.9	92
	1972..	4,153.5	3,441.9	682.3	24.3	83	3,657.4	3,441.9	215.5	94
	1967..	2,901.0	2,433.5	452.0	21.5	84	2,673.1	2,433.5	239.6	91
2661	Building paper and board mills.....1977..	473.8	428.9	33.4	11.5	93	514.3	428.9	85.4	83
	1972..	456.2	368.3	63.0	24.9	85	401.9	368.3	33.6	92
	1967..	341.1	303.6	26.1	11.4	92	317.9	303.6	14.3	96

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Pulp mills (SIC 2611)	Paper mills, except building paper (SIC 2621)	Paperboard mills (SIC 2631)	Building paper and board mills (SIC 2661)	Other industries
	Total	(X)	2,091.1	12,613.3	7,124.3	473.8	(X)
	Primary products	(X)	1,780.9	11,491.7	5,934.7	428.9	(X)
	Secondary products	(X)	291.3	1,014.3	1,129.1	33.4	(X)
	Miscellaneous receipts	(X)	18.9	107.3	60.5	11.5	(X)
2611-	Pulp	2,466.4	1,780.9	453.2	201.9	(D)	(D)
26111	Special alpha and dissolving wood pulp	570.5	(D)	(D)	-	-	-
26112	Other pulp (including pulp mill byproducts), except tall oil	1,894.8	1,209.6	(D)	201.9	(D)	(D)
26110	Pulp, n.s.k	1.1	(D)	-	-	-	(D)
2621-	Paper mill products, except building paper	12,438.2	142.6	11,491.7	761.2	-	42.7
26211	Newsprint	989.3	(D)	846.0	118.3	-	(D)
26212	Uncoated groundwood paper	539.0	(D)	531.1	-	-	(D)
26213	Clay coated printing and converting paper	2,260.9	(D)	(D)	(D)	-	-
26214	Uncoated free sheet	3,352.7	(D)	3,259.8	(D)	-	(D)
26215	Bleached bristols, except cotton fiber index and bogus	474.3	-	285.0	(D)	-	(D)
26216	Cotton fiber paper and thin paper	496.1	-	(D)	-	-	(D)
26217	Unbleached kraft packaging and industrial converting paper	1,098.7	-	832.1	(D)	-	(D)
26218	Packaging and industrial converting paper, except unbleached kraft	560.6	-	533.8	26.8	-	-
26219	Special industrial paper	550.7	-	526.4	(D)	-	(D)
26210	Tissue paper, and paper mill products, n.s.k	2,115.9	(D)	1,997.7	(D)	-	(D)
2631-	Paperboard mill products	6,434.7	(D)	412.2	5,934.7	(D)	(D)
26311	Unbleached kraft packaging and industrial converting paperboard	2,697.2	(D)	(D)	2,519.0	-	-
26312	Bleached packaging and industrial converting paperboard	1,364.6	(D)	(D)	1,120.4	-	-
26313	Semichemical paperboard	748.9	-	62.9	686.0	-	-
26314	Recycled paperboard	1,562.7	(D)	(D)	1,553.4	-	(D)
26318	Wet machine board	59.3	-	(D)	(D)	(D)	-
26310	Paperboard mill products, n.s.k	2.0	-	-	(D)	-	(D)
2661-	Building paper and board	514.3	-	-	19.3	428.9	66.1
26611	Insulating board	222.2	-	-	-	(D)	(D)
26612	Construction paper	291.8	-	-	19.3	246.6	25.9
26610	Building paper and board, n.s.k	.3	-	-	-	(D)	(D)
	Other shipments by 4-digit product group:						
2141-	Stemmed and redried tobacco	(X)	-	(D)	-	-	(X)
2297-	Nonwoven fabrics	(X)	.8	57.7	-	-	(X)
2411-	Logging products and contract logging	(X)	16.2	-	(D)	-	(X)
2421-	Sawmill and planing mill products	(X)	(D)	-	(D)	-	(X)
2436-	Softwood veneer and plywood	(X)	-	-	(D)	-	(X)
2499-	Wood products, n.e.c	(X)	-	(D)	-	(D)	(X)
2641-	Coated and glazed paper	(X)	-	(D)	(D)	-	(X)
2645-	Die-cut paper and board	(X)	-	(D)	(D)	-	(X)
2647-	Sanitary paper products	(X)	-	(D)	-	-	(X)
2648-	Stationery products	(X)	-	(D)	-	-	(X)
2651-	Folding paperboard boxes	(X)	-	-	(D)	-	(X)
2654-	Sanitary food containers	(X)	-	(D)	(D)	-	(X)
2655-	Fiber cans, drums, and similar products	(X)	-	-	(D)	-	(X)
2752-	Commercial printing, lithographic	(X)	-	-	(D)	-	(X)
2812-	Alkalies and chlorine	(X)	(D)	(D)	-	-	(X)
2861-	Gum and wood chemicals	(X)	(D)	21.5	48.3	-	(X)
2869-	Industrial organic chemicals, n.e.c	(X)	(D)	-	-	-	(X)
2952-	Asphalt felts and coatings	(X)	-	-	(D)	-	(X)
3079-	Miscellaneous plastics products	(X)	-	-	(D)	-	(X)
3296-	Mineral wool	(X)	-	-	-	(D)	(X)
	Miscellaneous receipts:						
93000 00	Contract work	(X)	-	.9	(D)	-	(X)
99980 13	Sales of scrap and refuse	(X)	(D)	10.5	7.9	(D)	(X)
99980 41	Receipts for research and developmental work	(X)	-	(D)	-	-	(X)
99980 98	Other miscellaneous receipts, including receipts for repair work, etc	(X)	(D)	40.0	(D)	(D)	(X)
99980 00	Other miscellaneous receipts, n.s.k	(X)	-	(D)	-	-	(X)
99989 00	Resales	(X)	8.5	55.8	50.0	11.4	(X)

See footnotes at end of table.

Table 5c. **Industry-Product Analysis — Shipments by Product Class and Industry: 1977** — Con.

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Industry and miscellaneous receipts	Other industries	1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:			Other industries with over $5 million shipments of primary products--Con.	
2611-	2869 Industrial organic chemicals, n.e.c.	(D)	2661-	2499 Wood products, n.e.c.	(D)
				2952 Asphalt felts and coatings	(D)
2621-	2141 Tobacco stemming and redrying	(D)		3292 Asbestos products	(D)
	2647 Sanitary paper products	(D)		3296 Mineral wool	(D)
	2821 Plastics materials and resins	(D)			

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972**

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	1977						1972				
		Number of companies with shipments of $100,000 or more	Production for all purposes[3] (1,000 s. tons)	Product shipments including interplant transfers[1 2]		Interplant transfers[1 2]		Production for all purposes[3] (1,000 s. tons)	Product shipments including interplant transfers[2]		Interplant transfers[2]	
				Quantity[4] (1,000 s. tons)	Value (mil. dol.)	Quantity[4] (1,000 s. tons)	Value (mil. dol.)		Quantity (1,000 s. tons)	Value (mil. dol.)	Quantity (1,000 s. tons)	Value (mil. dol.)
	PULP MILLS											
2611- --	Total	(NA)	(X)	(X)	2,466.4	(X)	564.5	(X)	(X)	1,132.4	(X)	230.7
26111 --	Special alpha and dissolving wood pulp:											
26111 11	Special alpha and dissolving wood pulp (sulfite and sulfate for chemical conversion, papermaking, and other uses)	7	1,447.4	1,438.2	570.5	(D)	(D)	1,656	1,710.0	304.7	(D)	(D)
26112 --	Other pulp, including pulp mill byproducts, except tall oil	(NA)	(X)	(X)	1,894.8	(X)	(D)	(X)	(X)	826.0	(X)	(D)
	Wood pulp	(NA)	[5]47,696.9	6,225.4	1,664.9	(S)	(S)	[5]45,109	6,065.9	723.3	1,994.2	214.4
	Sulfite:											
26112 16	Bleached	9	2,011.8	595.4	163.9	256.0	67.5	1,827	799.8	98.0	221.9	24.5
26112 26	Unbleached	5		130.7	22.3	(D)	(D)	345	34.7	3.9	19.5	2.2
	Sulfate:											
26112 31	Bleached softwood (brightness over 75)	26	14,384.4	3,019.7	882.6	1,002.3	292.1	12,460	2,493.0	325.1	737.4	90.8
26112 35	Bleached hardwood (brightness over 75)	24		1,697.9	449.6	343.7	87.3		1,877.1	221.1	475.6	54.3
26112 39	Semibleached (brightness 45-75)	6	1,243.6	234.9	64.0	(D)	(D)	1,574	198.7	23.2	(D)	(D)
26112 43	Unbleached	7	18,435.9	139.8	26.4	15.0	2.8	17,792	191.5	18.2	24.7	2.3
26112 51	Soda	-	(D)	-	-	-	-	184	(D)	(D)	(D)	(D)
	Groundwood:											
26112 64	Stone groundwood and refiner	3	4,268.2	121.8	24.6	(D)	(D)	4,639	124.4	10.4	108.5	9.2
26112 66	Thermomechanical	3	583.3									
26112 72	Semichemical	3	3,542.2	152.4	26.6	(D)	(D)	3,786	265.5	19.5	243.8	17.2
26112 75	Defibrated or exploded	-	3,030.0	(D)	(D)	(D)	(D)	2,380	-	-	-	-
26112 79	Screenings, off-quality, damaged, etc.	3	(D)	(D)	(D)	(D)	(D)	122	(D)	(D)	(D)	(D)
	Pulp, other than wood, and miscellaneous pulp mill products, n.e.c.:											
26112 81	Cotton linter pulp	5	198.4	190.0	93.7	-	-	181	167.3	35.3	-	-
26112 85	Other pulp, including pulp made from straw, rag, flax, deinked paper, bagasse, etc.	7	(S)	283.5	61.1	76.9	16.5	260	121.5	15.1	(D)	(D)
26112 87	Turpentine, sulfate (quantity in million gallons)	31	25.8	25.5	12.7	2.7	1.2	28	28.7	13.2	(D)	(D)
26112 89	Other cooking liquor byproducts (skimmings, binders, fuel, etc.)	24	2,227.6	1,522.2	62.2	967.8	22.9	1,569	1,051.0	38.9	431.3	11.2
26112 00	Other pulp, including pulp mill byproducts, except tall oil, n.s.k.	(NA)	(X)	(X)	.2	(X)	(X)	(X)	(X)	.2	(X)	(X)
26110 00	Pulp mill products, n.s.k., typically for establishments with 10 employees or more (see note)	(NA)	(X)	(X)	1.1	(X)	(X)	(X)	(X)	.6	(X)	(X)
26110 02	Pulp mill products, n.s.k., typically for establishments with less than 10 employees (see note)	-	(X)	(X)	-	(X)	(X)	(X)	(X)	1.1	(X)	(X)
	PAPER MILLS, EXCEPT BUILDING PAPER											
2621- --	Total	(NA)	(X)	(X)	12,438.2	5,032.4	2,157.6	[6]25,333.1	[6]25,086.0	6,182.2	[6]5,775.1	1,331.4
26211 --	Newsprint:											
26211 00	Newsprint	16	3,529.2	3,526.0	989.3	(D)	(D)	3,428.1	3,449.4	506.0	(D)	(D)
26212 --	Groundwood paper, uncoated	(NA)	1,551.0	1,557.9	539.0	(D)	(D)	1,276.0	1,272.7	232.7	(D)	(D)
26212 10	Publication and printing	11	1,366.1	1,375.2	476.4	-	-	1,122.9	1,117.8	201.0	(D)	(D)
26212 30	Body stock for coating, including body stock produced for shipment to establishments without papermaking equipment	4	(D)	(D)	(D)	(D)	(D)	153.1	154.9	31.7	(D)	(D)
26212 50	Other converting and miscellaneous groundwood paper	11	(D)	(D)	(D)	(D)	(D)					
26212 00	Groundwood paper, uncoated, n.s.k.	(X)	(X)	(X)	-	(X)	(X)	(X)	(X)	-	(X)	(X)

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	1977						1972				
		Number of companies with shipments of $100,000 or more	Production for all purposes[3] (1,000 s. tons)	Product shipments including interplant transfers[1 2]		Interplant transfers[1 2]		Production for all purposes[3] (1,000 s. tons)	Product shipments including interplant transfers[2]		Interplant transfers[2]	
				Quantity[4] (1,000 s. tons)	Value (mil. dol.)	Quantity[4] (1,000 s. tons)	Value (mil. dol.)		Quantity (1,000 s. tons)	Value (mil. dol.)	Quantity (1,000 s. tons)	Value (mil. dol.)
2621-	PAPER MILLS, EXCEPT BUILDING PAPER--Con.											
26213 --	Clay coated printing and converting paper	(NA)	4,383.2	4,434.6	2,260.9	(S)	(S)	3,755.0	3,630.9	1,024.8	(S)	(S)
26213 10	Coated one side, except prime-coated body stock for further coating	16	477.8	491.6	296.6	(S)	(S)	424.4	422.2	144.6	(S)	(S)
26213 30	Coated two sides, except prime-coated body stock for further coating	25	3,840.5	3,878.7	1,929.3	(S)	(S)					
	Prime-coated body stock for further coating:											
26213 50	Produced for shipment to establishments without papermaking equipment	3	64.9	64.3	35.0	(S)	(S)	3,330.6	3,208.7	880.2	(S)	(S)
26213 60	Produced for own use or for shipments to establishments with papermaking equipment (memo only, not included in totals)	(X)	280.1	(X)	(X)	(X)	(X)	(S)	(X)	(X)	(X)	(X)
26213 00	Coated printing and converting paper, n.s.k.	(X)	(X)	(X)	-	(X)	(X)	(X)	(X)	-	(X)	(X)
26214 --	Uncoated free sheet[7]	(NA)	(X)	(X)	3,352.7	330.3	147.6	5,939.1	5,875.6	1,669.6	[8]309.7	[8]74.4
26214 20	Writing, chemical wood pulp	53	3,215.8	3,245.9	1,724.6	(D)	(D)	2,718.7	2,700.1	817.8	[8]297.7	[8]98.6
26214 40	Publication and printing	40	2,058.0	2,053.1	990.4	153.0	66.8	2,130.1	2,082.2	550.9	212.9	52.9
	Body stock for coating:											
26214 51	Produced for shipment to establishments without papermaking equipment	5	74.9	71.7	35.2	-	-	55.5	55.2	14.0	(D)	(D)
26214 52	Produced for own use or for shipment to establishments with papermaking equipment (memo only, not included in totals)	(X)	103.7	(X)	(X)	(X)	(X)	127.1	(X)	(X)	(X)	(X)
26214 65	Cover text	23	237.2	237.4	171.3	(D)	(D)	169.0	171.8	91.2	[8](D)	[8](D)
26214 80	Other converting and miscellaneous book paper	30	940.2	951.8	429.4	22.2	9.3	865.8	866.3	195.7	(D)	(D)
26214 00	Book paper, uncoated, n.s.k.	(NA)	(X)	(X)	1.8	(X)	(X)	(X)	(X)	-	(X)	(X)
26215 --	Bleached bristols, excluding cotton fiber index and bogus	(NA)	1,061.3	1,048.8	474.3	124.4	52.2	1,036.6	1,013.6	244.4	74.3	22.5
26215 10	Tabulating index	6	312.4	313.7	143.6	(D)	(D)	469.7	467.0	103.2	(D)	(D)
26215 30	Tag and file folder	10	288.8	284.4	114.3	(D)	(D)	298.5	297.8	62.9	(D)	(D)
26215 50	Other uncoated bristols	18	240.5	236.3	115.3	58.8	23.8	135.9	128.1	38.9	28.5	8.1
26215 60	Coated bristols	6	219.6	214.4	101.1	(D)	(D)	132.5	120.7	39.4	29.9	11.2
26215 00	Bleached bristols, n.s.k.	(X)	(X)	(X)	-	(X)	(X)	(X)	(X)	-	(X)	(X)
26216 --	Cotton fiber paper and thin paper[7]	(NA)	473.8	469.9	496.1	(D)	(D)	434.5	424.9	291.3	[8]316.7	[8]108.2
26216 10	Writing, cotton fiber, including cotton fiber index	17	158.5	164.6	159.9	(D)	(D)	114.4	109.2	91.9	(D)	(D)
26216 70	Thin paper	14	315.3	305.3	336.2	(D)	(D)	320.1	315.7	199.4	(D)	(D)
26216 00	Writing and related paper, n.s.k.	(X)	(X)	(X)	-	(X)	(X)	(X)	(X)	-	(X)	(X)
26217 --	Unbleached kraft packaging and industrial converting paper	(NA)	(X)	(X)	1,098.7	1,641.5	415.2	3,929.3	3,865.9	602.9	1,478.5	221.9
26217 10	Wrapping	24	176.0	182.3	58.2	44.7	13.2	311.6	306.4	49.4	130.9	20.1
26217 30	Shipping sack	17	1,047.8	1,033.9	281.8	508.6	137.6	1,018.1	999.6	153.2	397.3	61.2
26217 50	Bag and sack, other than shipping sack	23	2,125.5	2,117.5	524.7	998.1	229.9	1,878.7	1,868.0	257.9	794.7	108.5
26217 60	Other converting (18 pounds and over)	24	528.4	532.5	232.0	90.1	34.5	720.9	691.9	142.4	155.6	32.1
26217 00	Unbleached kraft packaging and industrial converting paper, n.s.k.	(NA)	(X)	(X)	2.0	(X)	(X)	(X)	(X)	-	(X)	(X)

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972**—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	1977						1972				
		Number of companies with shipments of $100,000 or more	Production for all purposes[3] (1,000 s. tons)	Product shipments including interplant transfers[1 2]		Interplant transfers[1 2]		Production for all purposes[3] (1,000 s. tons)	Product shipments including interplant transfers[2]		Interplant transfers[2]	
				Quantity[4] (1,000 s. tons)	Value (mil. dol.)	Quantity[4] (1,000 s. tons)	Value (mil. dol.)		Quantity (1,000 s. tons)	Value (mil. dol.)	Quantity (1,000 s. tons)	Value (mil. dol.)
2621	PAPER MILLS, EXCEPT BUILDING PAPER--Con.											
26218 --	Packaging and industrial converting paper, except unbleached kraft	(NA)	1,149.7	1,116.1	560.6	212.2	111.3	1,279.0	1,299.7	379.3	317.9	86.9
26218 10	Wrapping	18	138.5	136.2	56.5	15.5	5.2	204.2	207.7	49.9	52.0	13.6
26218 30	Shipping sack, including combination kraft and rope bleached and semibleached	12	124.9	122.4	50.9	22.4	9.5	98.3	98.8	24.3	33.0	8.7
26218 50	Other bag and sack	18	244.4	243.1	93.1	52.9	20.5	238.8	243.3	50.7	92.4	18.4
26218 60	Other converting (18 pounds and over)	26	437.7	426.9	205.1	98.0	57.2	504.0	517.4	140.7	106.2	30.7
26218 80	Glassine, greaseproof, and vegetable parchment	7	204.2	187.5	154.8	23.4	18.9	233.7	232.5	113.7	34.3	15.5
26218 00	Packaging and industrial converting paper, n.s.k.	(X)	(X)	(X)	(Z)	(X)	(X)	(X)	(X)	-	(X)	(X)
26219 --	Special industrial paper:											
26219 00	Special industrial paper	39	656.4	694.8	550.7	20.2	21.8	499.0	517.8	272.1	42.9	16.7
26210 --	Tissue paper and other machine creped paper	(NA)	3,895.9	3,874.5	2,070.4	2,522.8	1,313.5	3,756.5	3,735.5	946.0	2,800.8	692.5
	Sanitary paper:											
26210 10	Toilet tissue	17	1,444.3	1,434.0	783.9	961.5	515.0	1,276.0	1,261.6	310.4	1,014.3	243.1
26210 30	Facial tissue, other than toweling, napkin, and toilet	16	344.2	342.4	202.2	269.7	151.8	365.6	362.4	102.4	255.6	69.4
26210 50	Napkin	23	476.5	473.3	241.3	345.0	161.5	410.6	413.2	110.0	277.5	68.9
26210 60	Toweling, excluding wiper stock, but including facial tissue stock for towels	23	1,301.3	1,292.2	636.1	810.6	407.4	1,213.7	1,206.0	280.2	991.2	236.3
26210 70	Other sanitary paper stock, wadding, and wiper stock	16	168.7	177.9	109.7	109.5	67.0	284.7	288.0	82.7	226.5	61.4
26210 80	Tissue paper, excluding sanitary and thin	22	160.9	154.7	97.2	26.5	10.8	205.9	204.3	60.3	35.7	13.4
26210 00	Tissue paper and other machine creped paper, n.s.k.	(NA)	(X)	(X)	45.5	(X)	(X)	(X)	(X)	-	(X)	(X)
26210 00	Paper mills, except building paper, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)						(X)	(X)	9.2	(X)	(X)
26210 02	Paper mills, except building paper, n.s.k., typically for establishments with less than 5 employees (see note)	(X)	(X)	(X)	-	(X)	(X)	(X)	(X)	3.9	(X)	(X)
	PAPERBOARD MILLS											
2631- --	Total	(NA)	[10]29,081.1	[10]28,808.4	[10]6,434.7	[10]12,282.9	[10]2,652.2	[10]28,699.0	[10]28,681.3	3,657.4	[10]8,697.9	1,083.3
26311 --	Unbleached kraft packaging and industrial converting paperboard	(NA)	13,727.9	13,584.8	2,697.2	5,856.9	1,176.7	13,317.6	13,319.7	1,562.2	3,678.8	430.2
26311 10	Unbleached linerboard	30	12,736.6	12,613.1	2,437.9	5,529.8	1,084.0	12,630.1	12,635.6	1,462.8	3,586.7	416.4
26311 40	Folding carton-type board	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26311 81	Tube, can, and drum paperboard	9	193.8	184.7	39.8	(D)	(D)	213.5	212.3	27.6	(D)	(D)
26311 83	Other unbleached packaging and industrial converting kraft paperboard, including corrugating medium	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26311 00	Unbleached kraft packaging and industrial converting paperboard, n.s.k.	(X)	(X)	(X)	-	(X)	(X)	-	-	-	-	-

See footnotes at end of table.

Table 6a. **Products and Product Classes—Quantity and Value of Shipments by All Producers: 1977 and 1972**—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	1977						1972				
		Number of companies with shipments of $100,000 or more	Production for all purposes[3] (1,000 s. tons)	Product shipments including interplant transfers[1 2]		Interplant transfers[1 2]		Production for all purposes[3] (1,000 s. tons)	Product shipments including interplant transfers[2]		Interplant transfers[2]	
				Quantity[4] (1,000 s. tons)	Value (mil. dol.)	Quantity[4] (1,000 s. tons)	Value (mil. dol.)		Quantity (1,000 s. tons)	Value (mil. dol.)	Quantity (1,000 s. tons)	Value (mil. dol.)
2631-	PAPERBOARD MILLS--Con.											
26312 --	Bleached packaging and industrial converting paperboard..	(NA)	3,804.4	3,767.8	1,364.6	1,463.2	454.4	3,649.4	3,736.7	696.3	1,412.4	237.7
26312 10	Linerboard.....	7	98.0	97.0	30.6	(D)	(D)	132.1	131.6	23.3	16.1	2.9
26312 40	Folding carton-type board...	15	1,796.7	1,787.1	697.1	475.4	178.5	1,553.7	1,553.1	313.4	356.7	68.6
26312 61	Milk carton board.....	8	1,097.3	1,084.9	351.4	847.5	250.0	1,006.5	1,012.2	162.6	861.6	133.4
26312 62	Heavyweight cup and round nested food container.....	12	334.0	331.9	121.3	(D)	(D)	292.7	385.7	73.9	(D)	(D)
26312 63	Plate, dish, and tray stock.	12	287.6	275.5	98.4	52.3	17.7	351.4	344.4	61.9	84.3	14.8
26312 64	Other bleached paperboard for moist, liquid, and oily foods.....	5	18.2	17.2	6.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26312 83	Bleached paperboard for miscellaneous packaging....	7	74.9	75.4	29.8	16.1	6.7	(D)	(D)	(D)	(D)	(D)
26312 84	Other solid bleached board..	9	97.7	98.8	29.2	(D)	(D)	269.5	263.8	52.3	(D)	(D)
26312 00	Bleached packaging and industrial converting paperboard, n.s.k.....	(X)	(X)	(X)	-	(X)	(X)	-	-	-	-	-
26313 --	Semichemical paperboard.....	(NA)	3,978.2	3,973.9	748.9	(D)	(D)	3,870.5	3,868.9	415.3	(D)	(D)
26313 20	Corrugating medium.....	27	3,978.2	3,973.9	748.9	(D)	(D)	3,870.5	3,868.9	415.3	(D)	(D)
26313 90	Other semichemical paperboard.....	2										
26313 00	Semichemical paperboard, n.s.k.....	(X)	(X)	(X)	-	(X)	(X)	(X)	(X)	-	(X)	(X)
26314 --	Recycled paperboard.....	(NA)	7,448.3	7,360.8	1,562.7	3,271.2	667.2	7,712.8	7,609.8	929.5	2,500.7	293.8
26314 10	Linerboard (less than 80 percent virgin fiber).....	17	385.6	384.5	76.2	(D)	(D)	322.5	322.7	36.8	95.2	9.9
26314 20	Corrugating medium (less than 75 percent virgin fiber).....	19	1,357.1	1,348.1	247.9	660.6	128.4	1,094.6	1,092.6	118.0	328.0	35.0
26314 30	Container chip and filler-board.....	26	245.7	247.8	46.2	104.0	17.4	291.2	245.8	28.2	59.6	5.7
	Folding carton:											
26314 43	Unlined chipboard.....	37	532.1	529.5	113.4	167.9	38.9	759.0	755.9	92.7	222.4	26.7
26314 44	Kraft-lined.....	21	158.6	157.2	34.8	46.8	9.9	141.4	141.6	19.3	20.0	2.6
26314 45	White-lined.....	29	308.7	307.9	72.0	55.8	12.9	611.4	560.2	78.6	155.2	21.2
26314 46	Clay coated.....	18	1,373.9	1,319.4	353.7	677.1	178.9	1,160.1	1,157.5	177.3	466.9	78.5
26314 50	Setup.....	34	595.7	591.6	124.0	118.8	22.2	846.2	848.9	108.2	57.7	6.9
26314 81	Tube, can, and drum paperboard.....	25	787.1	776.5	147.6	384.3	71.1	729.3	728.0	78.4	(D)	(D)
26314 82	Gypsum linerboard.....	9	1,117.9	1,113.7	197.3	(D)	(D)	1,156.0	1,158.2	111.6	(D)	(D)
26314 85	Panelboard and wallboard....	5										
26314 83	Other recycled paperboard...	33	585.9	584.6	149.6	89.3	18.7	601.1	598.4	80.4	(D)	(D)
26314 00	Recycled paperboard, n.s.k..	(X)	(X)	(X)	-	(X)	(X)	(X)	(X)	-	-	-
26318 00	Wet machine board: Wet machine board.....	12	123.1	121.1	59.3	(D)	(D)	148.7	146.2	46.6	(D)	(D)
26310 00	Paperboard mills, n.s.k., typically for establishments with 10 employees or more (see note).....	(NA)	(X)	(X)	2.0	(X)	(X)	(X)	(X)	6.4	(X)	(X)
26310 02	Paperboard mills, n.s.k., typically for establishments with less than 10 employees (see note).....	(X)	(X)	(X)	-	(X)	(X)	(X)	(X)	1.1	(X)	(X)
	BUILDING PAPER AND BOARD MILLS											
2661 --	Total.....	(NA)	[11]2,619.9	[11]2,615.5	514.3	(S)	(S)	[11]3,021.0	[11]2,988.6	401.9	[11]1,080.3	126.7
26611 --	Insulating board:											
26611 10	Insulating board (less than 31 pounds per cubic foot)..	13	1,114.3	1,110.1	222.2	(S)	(S)	1,460.0	1,439.4	219.7	277.3	39.5
26611 60	Insualting board (less than 31 pounds per cubic foot) (Quantity in million sq. ft., 1/2-inch basis).....	(X)	2,820.2	2,803.2	(X)	(X)	(X)	3,808.0	3,784.9	(X)	(X)	(X)
26612 --	Construction paper:											
26612 00	Construction paper (dry basis before saturating)...	14	1,505.6	1,505.4	291.8	1,110.6	193.6	1,561.0	1,549.2	175.6	803.0	87.2

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	1977					1972				
		Number of companies with shipments of $100,000 or more	Production for all purposes[3] (1,000 s. tons)	Product shipments including interplant transfers[1 2]		Interplant transfers[1 2]		Production for all purposes[3] (1,000 s. tons)	Product shipments including interplant transfers[2]		Interplant transfers[2]	
				Quantity[4] (1,000 s. tons)	Value (mil. dol.)	Quantity[4] (1,000 s. tons)	Value (mil. dol.)		Quantity (1,000 s. tons)	Value (mil. dol.)	Quantity (1,000 s. tons)	Value (mil. dol.)
	BUILDING PAPER AND BOARD MILLS--Con.											
26610 00	Building paper and board mills, n.s.k., typically for companies with 10 employees or more (see note).....	(NA)	(X)	(X)	.3	(X)	(X)	(X)	(X)	5.8	(X)	(X)
26610 02	Building paper and board mills, n.s.k., typically for companies with 10 employees or more (see note).....	-	(X)	(X)	-	(X)	(X)	(X)	(X)	.8	(X)	(X)

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]The difference between total shipments and interplant transfers represents "market shipments." In the case of woodpulp, total shipments and interplant transfers exclude transfers of woodpulp to a paper or board mill operated at the same physical location unless the pulpmill is reported separately. In the case of paper and board, total shipments and interplant transfers include transfers of paper and board to a converting facility conducted at the same physical location.

[3]Comparable monthly and detailed annual production data are published in Current Industrial Reports, series M26A, "Pulp, Paper, and Board."

[4]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[5]1977 "Production for all purposes" data for product codes 26112 16-26112 79 are from 1978 Current Industrial Reports M26A(78)-13, Pulp, Paper, and Board; 1972 data are from 1973 report, M26A(73)-13.

[6]The total does not include tonnage for the value of shipments reported for product codes 26210 00 and 26210 02.

[7]For 1977, the following product codes have been revised.

Product code							
1977	1972	1977	1972	1977	1972	1977	1972
26214 20 26214 40	26216 30 26214 10	26214 51 26214 52	26214 30 26214 50	26214 65 26214 80	26216 50 26214 60	26214 00	26216 00

[8]For 1972, quantity and value of interplant transfers of product codes 26214 20 and 25214 65 were not included in product class 26214 total, but are included in product class 26216 totals to avoid disclosing operations of individual companies.

[9]For 1977, industry total includes data for product code 26210 00, but product class 26210 total does not.

[10]The total does not include tonnage for the value of shipments reported for product codes 26310 00 and 26310 02.

[11]The total does not include tonnage for the value of shipments reported for product codes 26610 00 and 26610 02.

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
26112, OTHER PULP (INCLUDING PULP MILL BYPRODUCT), EXCEPT TALL OIL		
United States	1,894.8	826.0
New England Division:		
Maine	153.2	GG
Middle Atlantic Division:		
New York	6.9	BB
East North Central Division:		
Wisconsin	90.3	FF
South Atlantic Division:		
North Carolina	129.2	56.0
Georgia	189.3	74.7
Florida	175.5	47.9
East South Central Division:		
Tennessee	66.9	FF
Alabama	105.3	53.6
West South Central Division:		
Arkansas	33.1	22.7
Pacific Division:		
Washington	230.7	120.3
Oregon	68.8	EE
California	115.0	GG
26211, NEWSPRINT		
United States	989.3	506.0
Mountain Division:		
Washington	65.0	FF
26212, UNCOATED GROUNDWOOD PAPER		
United States	539.0	232.7
East North Central Division:		
Michigan	51.5	BB
26213, CLAY COATED PRINTING AND CONVERTING PAPER		
United States	2,260.9	1,024.8
New England Division:		
Maine	429.6	GG
Middle Atlantic Division:		
New York	167.3	GG
Pennsylvania	57.2	EE
East North Central Division:		
Michigan	210.4	87.0
Wisconsin	439.5	204.0
26214, UNCOATED FREE SHEET		
United States	3,352.7	1,669.6
New England Division:		
Maine	269.6	(NA)
Massachusetts	129.7	(NA)
Middle Atlantic Division:		
New York	253.0	(NA)
Pennsylvania	348.4	(NA)
East North Central Division:		
Ohio	345.4	(NA)
Michigan	154.4	(NA)
Wisconsin	405.9	(NA)
East South Central Division:		
Alabama	142.6	(NA)
26215, BLEACHED BRISTOLS, EXCEPT COTTON FIBER INDEX AND BOGUS		
United States	474.3	244.4
New England Division:		
Massachusetts	2.2	BB
26216, COTTON FIBER PAPER AND THIN PAPER		
United States	496.1	291.3
New England Division:		
Massachusetts	122.7	(NA)
East North Central Division:		
Wisconsin	79.7	(NA)
26217, UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER		
United States	1,098.7	602.9
West South Central Division:		
Arkansas	101.2	GG
Louisiana	145.0	80.1
Pacific Division:		
Washington	149.5	73.2
26218, PACKAGING AND INDUSTRIAL CONVERTING PAPER, EXCEPT UNBLEACHED KRAFT		
United States	560.6	379.3
New England Division:		
New Hampshire	5.9	CC
Massachusetts	26.3	EE
East North Central Division:		
Ohio	6.9	7.1
Michigan	63.7	BB
Wisconsin	99.8	82.0
Pacific Division:		
Washington	96.1	FF
26219, SPECIAL INDUSTRIAL PAPER		
United States	550.7	272.1
New England Division:		
New Hampshire	27.3	10.0
Massachusetts	127.7	53.6
Middle Atlantic Division:		
New York	75.1	56.1
East North Central Division:		
Michigan	47.0	9.4
South Atlantic Division:		
Virginia	15.6	EE
26311, UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPERBOARD		
United States	2,697.2	1,562.2
South Atlantic Division:		
South Carolina	242.7	143.6
Georgia	450.3	314.9
Florida	287.8	183.7
East South Central Division:		
Alabama	279.7	141.2
West South Central Division:		
Louisiana	353.1	157.8
Pacific Division:		
Washington	117.6	75.3
Oregon	199.5	131.9

See footnotes at end of table.

Table 6b. Product Classes—Value of Shipments by All Producers by Geographic Area: 1977 and 1972—Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
26312, BLEACHED PACKAGING AND INDUSTRIAL CONVERTING PAPERBOARD		
United States	1,364.6	696.3
South Atlantic Division:		
North Carolina	178.6	102.3
Georgia	177.7	GG
East South Central Division:		
Alabama	201.1	GG
26313, SEMICHEMICAL PAPERBOARD		
United States	748.9	415.3
West South Central Division:		
Louisiana	92.9	FF
Pacific Division:		
Washington	50.0	26.0
Oregon	56.1	20.7
26314, RECYCLED PAPERBOARD		
United States	1,562.7	929.5
New England Division:		
Massachusetts	47.4	29.2
Connecticut	61.5	FF
Middle Atlantic Division:		
New York	59.9	FF
New Jersey	105.2	GG
Pennsylvania	130.8	90.3
26314, RECYCLED PAPERBOARD--Con.		
East North Central Division:		
Ohio	192.9	114.3
Indiana	90.4	35.9
Illinois	85.4	68.6
Michigan	169.6	91.8
Wisconsin	48.8	FF
South Atlantic Division:		
Virgina	55.9	EE
Georgia	34.7	14.6
Pacific Division:		
Washington	12.4	7.3
California	187.8	GG
26318, WET MACHINE BOARD		
United States	59.3	46.6
New England Division:		
New Hampshire	2.2	CC
26612, CONSTRUCTION PAPER		
United States	193.6	175.6
Middle Atlantic Division:		
Pennsylvania	27.6	14.7
East North Central Division:		
Illinois	48.9	30.0
West South Central Division:		
Texas	7.2	4.8
Pacific Division:		
California	27.2	14.0

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available.

Table 6c. Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2611-	Pulp	2,466.4	2,521.4	2,309.6	2,386.9	1,393.7	1,132.4	904.8	726.0
26111	Special alpha and dissolving wood pulp	570.5	562.2	491.3	535.3	326.8	304.7	227.2	210.0
26112	Other pulp (including pulp mill byproducts), except tall oil	1,894.8	1,957.6	1,816.8	1,850.8	1,066.6	826.0	673.8	515.8
26110	Pulp, n.s.k.	1.1	1.6	1.6	0.8	0.3	1.7	3.8	0.1
2621-	Paper mill products, except building paper	12,438.2	11,361.1	9,368.4	9,574.7	7,341.1	6,182.2	4,739.5	3,724.0
26211	Newsprint	989.3	898.5	828.2	669.9	533.6	506.0	321.8	270.8
26212	Uncoated groundwood paper	539.0	480.4	402.5	361.5	256.9	232.7	192.6	165.6
26213	Clay coated printing and converting paper	2,260.9	1,953.2	1,473.0	1,611.1	1,261.2	1,024.8	818.1	498.6
26214	Uncoated free sheet	3,352.7	(NA)	(NA)	(NA)	(NA)	74.4	(NA)	
26215	Bleached bristols, except cotton fiber index and bogus	474.3	415.4	355.0	384.1	299.7	244.4	210.6	
26216	Cotton fiber paper and thin paper	496.1	(NA)	(NA)	(NA)	(NA)	108.2	(NA)	
26217	Unbleached kraft packaging and industrial converting paper	1,098.7	1,040.5	873.2	951.6	703.4	602.9	503.1	[2]3,566.4
26218	Packaging and industrial converting paper, except unbleached kraft	560.6	519.4	438.8	499.5	392.6	379.3	283.8	
26219	Special industrial paper	550.7	464.3	387.7	433.7	331.0	272.1	193.2	
26210	Tissue paper, and papermill products, n.s.k.	2,115.9	2,014.1	1,765.2	1,408.7	1,104.0	959.1	698.0	550.1
2631-	Paperboard mill products	6,434.7	6,207.5	5,251.7	5,503.6	4,284.5	3,657.4	2,673.1	2,184.7
26311	Unbleached kraft packaging and industrial converting paperboard	2,697.2	2,635.1	2,238.7	2,133.4	1,806.4	1,562.2	974.8	
26312	Bleached packaging and industrial converting paperboard	1,364.6	1,330.9	1,092.6	1,020.4	813.5	696.3	522.6	[2]2,145.9
26313	Semichemical paperboard	748.9	751.9	654.0	627.0	497.8	415.3	294.9	
26314	Recycled paperboard	1,562.7	1,379.3	1,186.6	1,455.8	1,096.0	929.5	810.4	
26318	Wet machine board	59.3	77.6	69.0	71.5	54.4	46.6	36.4	37.3
26310	Paperboard mill products, n.s.k.	2.0	32.7	(10.7)	(17.5)	16.4	7.5	34.0	1.5
2661-	Building paper and board	514.3	479.4	404.1	468.1	444.1	401.9	317.9	299.5
26611	Insulating board	222.2	205.2	170.3	205.5	227.9	219.7	177.3	171.3
26612	Construction paper	291.8	262.6	225.6	256.5	209.1	175.6	135.3	126.7
26610	Building paper and board, n.s.k.	.3	(S)	8.3	6.1	7.1	6.6	5.3	1.5

(NA) Not available. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]In 1967, the detailed grades of paper and paperboard collected were changed. Therefore, many of the product classes do not have comparable data for 1963.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2611, PULP MILLS					
	Materials and supplies[2]	.....	(X)	978.3	(X)	341.5
	Pulpwood:					
	Softwood:					
	Bolts and logs:					
241101	Spruce and true fir	1,000 cd. of 128 cu. ft.	456.1	24.2	209.4	7.7
241102	Hemlock		837.5	45.3	965.4	27.7
241103	Jack pine		(D)	(D)	(D)	(D)
241104	Southern pine		2,864.0	140.3	1,659.0	46.0
241105	Other softwoods, including Douglas fir		(D)	(D)	105.8	2.6
242157	Chips		3,571.0	177.1	2,587.4	73.2
242015	Slabs, cores, and other mill waste		(D)	(D)	(D)	(D)
	Hardwood:					
	Bolts and logs:					
241106	Northern mixed hardwoods		(D)	(D)	297.9	5.8
241107	Poplar (aspen and popple)		(D)	(D)	63.0	1.4
241108	Southern mixed hardwoods		1,219.8	52.4	1,267.2	32.4
241119	Other hardwoods		(D)	(D)	(D)	(D)
242013	Slabs, chips, cores, and other mill waste	1,000 cd. of 128 cu. ft.	888.1	44.9	428.8	10.6
	Chemicals:					
147701	Sulfur	1,000 l. tons..	83.4	4.5	127.1	3.7
281211	Chlorine	1,000 s. tons..	330.3	37.4	246.1	13.2
281238	Sodium hydroxide (caustic soda) (100% NaOH)		564.0	70.8	446.8	24.1
281976	Sodium sulfate, including salt cake (100% NA_2SO_4)		120.1	7.4	29.2	.9
281961	Aluminum sulfate (17% Al_2O_3)	1,000 s. tons..	15.3	1.3	7.1	.3
289956	Rosin sizing	Million lb.....	(D)	(D)	(S)	(S)
327401	Lime	1,000 s. tons..	251.2	12.1	83.8	1.9
	Wood pulp:					
261102	Produced at affiliated or associated mills at other locations	1,000 s. tons (air-dry basis)	(D)	(D)	(D)	(D)
261102	Produced and consumed at the same location		618.4	(X)	(S)	(X)
261104	Purchased market wood pulp	1,000 s. tons (air-dry basis)	(D)	(D)	(D)	(D)
	Wastepaper:					
941111	Mixed	1,000 s. tons..				
941112	News					
941113	Corrugated		291.0	28.3	152.7	7.6
941114	High grade pulp substitutes					
941115	High grade deinking	1,000 s. tons..				
	Other materials:					
207431	Cotton linters	Million lb.....	315.4	22.6	230.7	7.8
941259	Other fibrous materials, including rags, straw, and bagasse	1,000 s. tons..	(D)	(D)	(D)	(D)
145501	Kaolin and ball clay	1,000 s. tons..	(D)	(D)	-	-
204609	Starch	Million lb.....	17.0	1.9	-	-
970099	All other materials and components, parts, containers, and supplies	.....	(X)	233.8	(X)	67.3
971000	Materials and supplies, n.s.k.[3]	.....	(X)	38.5	(X)	1.2
	INDUSTRY 2621, PAPER MILLS, EXCEPT BUILDING PAPER					
	Materials and supplies[2]	.....	(X)	5,845.6	(X)	3,010.3
	Pulpwood:					
	Softwood:					
	Bolts and logs:					
241101	Spruce and true fir	1,000 cd. of 128 cu. ft.	1,552.6	75.1	2,117.1	68.7
241102	Hemlock		432.0	19.1	1,121.9	32.8
241103	Jack pine		627.1	27.5	841.6	23.9
241104	Southern pine		5,931.7	255.2	7,041.0	186.9
241105	Other softwoods, including Douglas fir		854.6	31.7	970.9	25.5
242157	Chips		9,585.2	409.6	6,307.6	144.4
242015	Slabs, cores, and other mill waste		888.3	13.2	547.6	5.7
	Hardwood:					
	Bolts and logs:					
241106	Northern mixed hardwoods		1,713.3	61.9	2,059.6	50.3
241107	Poplar (aspen and popple)		774.2	31.1	1,107.7	29.1
241108	Southern mixed hardwoods		2,272.0	85.5	2,603.9	59.9
241119	Other hardwoods		443.2	14.1	428.4	10.5
242013	Slabs, chips, cores, and other mill waste	1,000 cd. of 128 cu. ft.	2,639.7	98.3	1,583.0	39.3
081111	Stumpage cost--cost of timber, excluding land, cut and consumed at same establishment	.....	(X)	3.4	(X)	6.8
	Chemicals:					
147701	Sulfur	1,000 l. tons..	138.2	10.3	169.6	5.2
281211	Chlorine	1,000 s. tons..	607.3	73.6	579.7	32.8

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2621, PAPER MILLS, EXCEPT BUILDING PAPER--Con.					
	Chemicals--Con.					
281238	Sodium hydroxide (caustic soda) (100 percent NaOH)	1,000 s. tons	824.6	105.5	645.7	37.8
281228	Sodium carbonate (soda ash) (98-100 percent Na_2CO_3)	1,000 s. tons	48.4	4.9	68.6	3.2
281976	Sodium sulfate, including salt cake (100 percent Na_2SO_4)	1,000 s. tons	415.5	30.2	472.1	15.8
281611	Titanium dioxide, composite and pure (100 percent TiO_2)	Million lb.	208.1	97.8	230.7	60.2
281961	Aluminum sulfate (17 percent Al_2O_3)	1,000 s. tons	264.4	22.7	273.7	13.3
289956	Rosin sizing	Million lb.	138.9	40.2	143.0	26.2
327401	Lime	1,000 s. tons	604.8	25.9	561.3	11.9
	Woodpulp:					
261102	Produced at affiliated or associated mills at other locations	1,000 s. tons (air-dry basis)	2,929.9	804.3	2,742.2	357.2
261102	Produced and consumed at same location	1,000 s. tons (air-dry basis)	15,292.1	(X)	14,244.0	(X)
261104	Purchased market woodpulp		3,522.4	1,128.2	4,326.3	614.8
	Wastepaper:					
941111	Mixed	1,000 s. tons	445.1	51.2	391.0	23.1
941112	News		612.5	34.9	472.0	15.5
941113	Corrugated		172.3	11.4	196.3	8.2
941114	High grade pulp substitutes		624.9	126.5	541.6	50.1
941115	High grade deinking	1,000 s. tons	830.2	95.4	488.2	31.0
	Other materials:					
261122	Linter pulp	1,000 s. tons	16.3	8.8	33.7	9.3
207431	Cotton linters	Million lb.	33.1	10.3	23.2	3.6
941259	Other fibrous materials, including rags, straw, and bagasse	1,000 s. tons	238.0	52.6	244.3	40.1
149971	Asbestos		27.2	3.9	(S)	1.8
145501	Kaolin and ball clay	1,000 s. tons	1,370.2	103.7	1,681.0	83.2
204609	Starch	Million lb.	1,043.5	113.7	1,026.3	78.4
265001	Paperboard boxes and containers		(X)	37.8	(X)	32.4
970099	All other materials and components, parts, containers, and supplies		(X)	1,473.9	(X)	749.9
971000	Materials and supplies, n.s.k.[3]		(X)	252.2	(X)	21.5
	INDUSTRY 2631, PAPERBOARD MILLS					
	Materials and supplies[2]		(X)	2,989.8	(X)	1,816.7
	Pulpwood:					
	Softwood:					
	Bolts and logs:					
241101	Spruce and true fir	1,000 cd. of 128 cu. ft.	(D)	(D)	(D)	(D)
241102	Hemlock		(D)	(D)	(D)	(D)
241103	Jack pine		(D)	(D)	(D)	(D)
241104	Southern pine		12,943.6	555.3	15,446.1	431.4
241105	Other softwoods, including Douglas fir		(D)	(D)	(D)	(D)
242157	Chips		12,669.8	510.6	10,594.9	240.6
242015	Slabs, cores, and other mill waste		759.1	11.9	1,040.3	9.6
	Hardwood:					
	Bolts and logs:					
241106	Northern mixed hardwoods		459.6	13.6	413.4	8.0
241107	Poplar (aspen and popple)		168.6	4.4	258.1	5.1
241108	Southern mixed hardwoods		3,076.9	103.1	3,633.6	81.0
241119	Other hardwoods		386.9	14.0	859.6	19.9
242013	Slabs, chips, cores, and other mill waste	1,000 cd. of 128 cu. ft.	2,491.4	83.0	1,435.9	34.8
081111	Stumpage cost--the cost of timber, excluding land, cut and consumed at this establishment		(X)	(D)	(X)	(D)
	Chemicals:					
147701	Sulfur	1,000 l. tons	53.9	3.6	82.1	2.5
281211	Chlorine	1,000 s. tons	330.9	37.9	310.5	17.4
281238	Sodium hydroxide (caustic soda) (100 percent NaOH)		638.1	79.6	594.1	31.3
281228	Sodium carbonate (soda ash) (98 to 100 percent Na_2CO_3)		145.5	12.9	189.0	8.5
281976	Sodium sulfate, including salt cake (100 percent Na_2SO_4)	1,000 s. tons	588.8	37.8	756.7	24.8
281611	Titanium dioxide, composite and pure (100 percent TiO_2)	Million lb.	51.4	22.0	29.4	6.8
281961	Aluminum sulfate (17 percent Al_2O_3)	1,000 s. tons	273.3	21.7	245.5	11.3
289956	Rosin sizing	Million lb.	129.6	31.3	134.7	18.6
327401	Lime	1,000 s. tons	391.4	16.9	344.7	6.9
	Woodpulp:					
261102	Produced at affiliated or associated mills at other locations	1,000 s. tons (air-dry basis)	159.7	25.8	339.2	27.5
261102	Produced and consumed at same location	1,000 s. tons (air dry basis)	21,640.6	(X)	21,845.4	(X)
261104	Purchased market woodpulp		(D)	(D)	254.9	33.2
	Wastepaper:					
941111	Mixed	1,000 s. tons	1,758.0	58.2	1,997.1	43.9
941112	News		1,280.1	58.4	1,441.1	37.4
941113	Corrugated		5,267.4	284.1	3,852.4	126.8
941114	High grade pulp substitutes		897.9	90.2	1,021.8	66.8
941115	High grade deinking	1,000 s. tons	118.5	13.0	91.4	5.0

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity	1977 Delivered cost (million dollars)	1972 Quantity	1972 Delivered cost (million dollars)
	INDUSTRY 2631, PAPERBOARD MILLS--Con.					
	Other materials:					
941259	Other fibrous materials, including rags, straw, and bagasse	1,000 s. tons	60.6	2.1	54.7	1.6
149971	Asbestos		(D)	(D)	(X)	(4)
145501	Kaolin and ball clay	1,000 s. tons	247.9	19.2	189.7	9.8
204609	Starch	Million lb.	308.9	33.6	257.7	17.3
265001	Paperboard boxes and containers		(X)	6.0	(X)	9.3
970099	All other materials and components, parts, containers, and supplies		(X)	747.2	(X)	4436.8
971000	Materials and supplies, n.s.k.[3]		(X)	40.6	(X)	18.3
	INDUSTRY 2661, BUILDING PAPER AND BOARD MILLS					
	Materials and supplies[2]		(X)	170.8	(X)	157.2
	Pulpwood:					
	Softwood:					
	Bolts and logs:					
241104	Southern pine	1,000 cd. of 128 cu. ft.	117.8	4.9	285.1	6.9
241105	Other softwoods, including Douglas fir		70.5	2.3	(NA)	(5)
242157	Chips		538.0	18.6	**418.1	7.0
242015	Slabs, cores, and other mill waste		97.6	3.2	92.7	1.3
	Hardwood:					
	Bolts and logs:					
241106	Northern mixed hardwoods		70.5	2.0	69.3	1.5
241107	Poplar (aspen and popple)				(D)	(D)
241108	Southern mixed hardwoods		23.8	.9	71.1	1.4
242013	Slabs, chips, cores, and other mill waste	1,000 cd. of 128 cu. ft.	104.4	3.2	132.9	4.2
	Chemicals:					
281238	Sodium hydroxide (caustic soda) (100% NaOH)	1,000 s. tons	1.7	.3	(NA)	(5)
281611	Titanium dioxide, composite and pure (100% TiO_2)	Million lb.	2.0	.9	6.9	1.6
281961	Aluminum sulfate (17% Al_2O_3)	1,000 s. tons	7.3	.5	(NA)	(5)
289956	Rosin sizing	Million lb.	(D)	(D)	(NA)	(5)
327401	Lime	1,000 s. tons	1.8	.1	(NA)	(5)
	Woodpulp:					
261102	Produced at affiliated or associated mills at other locations	1,000 s. tons (air dry basis)	(D)	(D)	(D)	(D)
261102	Produced and consumed at the same location		1,254.8	(X)	(S)	(X)
261104	Purchased market woodpulp	1,000 s. tons (air dry basis)	3.2	1.1	(D)	(D)
	Wastepaper:					
941111	Mixed	1,000 s. tons	447.9	11.9	489.6	9.2
941112	News		117.6	4.9	**181.5	4.3
941113	Corrugated		213.5	9.2	148.2	4.0
941114	High grade pulp substitutes				(NA)	(5)
	Other materials:					
941259	Other fibrous materials, including rags, straw, and bagasse		(D)	(D)	345.0	5.9
149971	Asbestos		125.0	26.4	130.7	14.0
145501	Kaolin and ball clay	1,000 s. tons	24.0	1.5	**32.1	1.2
204609	Starch	Million lb.	51.4	5.1	73.4	3.3
265001	Paperboard boxes and containers		(X)	.4	(X)	4.9
970099	All other materials and components, parts, containers, and supplies		(X)	70.8	(X)	564.6
971000	Materials, components, parts, containers, and supplies, n.s.k.[3]		(X)	(D)	(X)	11.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]Comparable quantity totals for consumption of pulpwood, wood pulp, wastepaper, and other fibrous materials by all mills (pulp, paper, and board) are published in Current Industrial Reports M26A, Pulp, Paper, and Board.

[3]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[4]For 1972, data for material code 149971 were included with material code 970099.

[5]For 1972, material codes 241105, 281238, 281961, 289956, 327401 and 941114 were included with material code 970099.

Converted Paper and Paperboard Products, Except Containers and Boxes

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DESCRIPTION OF INDUSTRIES

CONVERTED PAPER AND PAPERBOARD PRODUCTS, EXCEPT CONTAINERS AND BOXES

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code and Title

2641 Paper Coating and Glazing
2642 Envelopes
2643 Bags, Except Textile Bags
2645 Die-Cut Paper and Board
2646 Pressed and Molded Pulp Goods
2647 Sanitary Paper Products
2648 Stationery Products
2649 Converted Paper Products, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2641, PAPER COATING AND GLAZING

This industry comprises establishments primarily engaged in the manufacture of coated, glazed, or varnished paper from purchased paper. Also included are establishments primarily engaged in the manufacture of pressure sensitive tape with backing of any material other than rubber. Establishments primarily engaged in the manufacture of carbon paper are classified in industry 3955, and photographic and blueprint paper in industry 3861.

The total value of shipments for establishments classified in the Paper Coating and Glazing industry amounted to $3,392 million in 1977, an increase of 74 percent from 1972. The value of shipments of products classified as primary to the industry was $3,037 million, an increase of 84 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The product accounting for a significant portion of this change was pressure sensitive tape, for which shipments increased 105 percent. Value added by manufacture, at $1,507 million in 1977, was 53 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 39.7 thousand employees, an increase of 7 percent from 1972. The leading States in employment were Ohio, Wisconsin, Massachusetts, and Illinois, accounting for approximately 40 percent of the industry's 1977 employment.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of total value of shipments.

INDUSTRY 2642, ENVELOPES

This industry comprises establishments primarily engaged in the manufacture of envelopes of any description from purchased paper and paperboard. Establishments primarily engaged in the manufacture of stationery envelopes, defined as manufactured for personal and social use, are classified in industry 2648.

The total value of shipments for establishments classified in the Envelopes industry amounted to $991 million in 1977, an increase of 60 percent from 1972. The value of shipments of products classified as primary to the industry was $981 million, an increase of 67 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) However, the quantity of shipments of 100 billion envelopes for 1977 reflects only a 3 percent change for the same period. Value added by manufacture, at $503 million in 1977, was 45 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 22.6 thousand employees, a decrease of 1 percent from 1972. The leading States in

employment were New York, Illinois, California, and Massachusetts. Data for Massachusetts have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2643, BAGS, EXCEPT TEXTILE BAGS

This industry comprises establishments primarily engaged in the manufacture of bags from purchased paper, cellophane, acetate, polyethylene, polypropylene, pliofilm, foil, and similar sheet or film materials. Establishments primarily engaged in the manufacture of textile bags are classified in industry 2393.

The total value of shipments for establishments classified in the Bags, Except Textile Bags, industry amounted to $3,482 million in 1977, an increase of 75 percent from 1972. The value of shipments of products classified as primary to the industry was $3,304 million, an increase of 81 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were specialty bags and liners, for which shipments increased 97 percent. Value added by manufacture, at $1,350 million in 1977, was 61 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 48.7 thousand employees, an increase of 1 percent from 1972. The leading States in employment were New York, Illinois, Georgia, and California, accounting for approximately 35 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 35 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 7 percent of total value of shipments.

INDUSTRY 2645, DIE-CUT PAPER AND BOARD

This industry comprises establishments primarily engaged in die-cutting purchased paper and paperboard; and in the manufacture of cardboard by laminating, lining or surface-coating paperboard. Establishments primarily engaged in laminating building paper or building board from purchased paper or board are classified in industry 2649.

The total value of shipments for establishments classified in the Die-Cut Paper and Board industry amounted to $1,058 million in 1977, an increase of 56 percent from 1972. The value of shipments of products classified as primary to the industry was $1,034 million, an increase of 60 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were pasted, lined, laminated, or surface-coated paperboard, for which shipments increased 62 percent, and die-cut office supplies and miscellaneous products, for which shipments increased 41 percent. Value added by manufacture, at $430 million in 1977, was 42 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 14.3 thousand employees, a decrease of 6 percent from 1972. The leading States in employment were New York, New Jersey, Illinois, and Ohio, accounting for approximately 45 percent of the industry's 1977 employment. Data for New York and New Jersey have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 9 percent of total value of shipments.

INDUSTRY 2646, PRESSED AND MOLDED PULP GOODS

This industry comprises establishments primarily engaged in the manufacture of all kinds of pressed and molded pulp goods, including papier-mache articles, other than statuary and art goods (industry 3299). Establishments primarily engaged in the manufacture of plates and utensils from paper and paperboard are classified in industry 2654.

The total value of shipments for establishments classified in the Pressed and Molded Pulp Goods industry amounted to $240 million in 1977, an increase of 48 percent from 1972. The value of shipments of products classified as primary to the industry was $240 million, an increase of 48 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $154 million in 1977, was 53 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 4.9 thousand employees, a decrease of 20 percent from 1972. The leading States in employment were Maine, New York, California, and Illinois. Data for these

same States have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2647, SANITARY PAPER PRODUCTS

This industry comprises establishments primarily engaged in the manufacture of, from purchased paper, sanitary paper products such as facial tissues and handkerchiefs, table napkins, toilet paper, towels, disposable diapers, and sanitary napkins and tampons. Establishments primarily engaged in the manufacture of premoistened towellettes are classified in industry 2844.

The total value of shipments for establishments classified in the Sanitary Paper Products industry amounted to $4,921 million in 1977, an increase of 138 percent from 1972. The value of shipments of products classified as primary to the industry was $4,563 million, an increase of 130 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were disposable diapers, and sanitary napkins and tampons. Value added by manufacture, at $2,195 million in 1977, was 149 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 34.5 thousand employees, an increase of 31 percent from 1972. The leading States in employment were Wisconsin, Pennsylvania, California, and New Jersey, accounting for approximately 45 percent of the industry's 1977 employment. Data for Pennsylvania have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of total value of shipments.

INDUSTRY 2648, STATIONERY PRODUCTS

This industry comprises establishments primarily engaged in the manufacture of stationery, tablets, looseleaf fillers, and related items from purchased paper. Establishments primarily engaged in the manufacture of envelopes are classified in industry 2642.

The total value of shipments for establishments classified in the Stationery Products industry amounted to $652 million in 1977, an increase of 45 percent from 1972. The value of shipments of products classified as primary to the industry was $631 million, an increase of 50 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The product accounting for a significant portion of this change was note books, for which shipments increased 175 percent. Value added by manufacture, at $291 million in 1977, was 29 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 12.6 thousand employees, a decrease of 14 percent from 1972. The leading States in employment were Massachusetts, Missouri, Pennsylvania, and California, accounting for approximately 45 percent of the industry's 1977 employment. Data for California have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of total value of shipments.

INDUSTRY 2649, CONVERTED PAPER PRODUCTS, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of, from purchased paper or paperboard, miscellaneous converted paper or paperboard products, not elsewhere classified. Establishments primarily engaged in the manufacture of sanitary paper products are classified in industry 2647. The paper stock used for wallpaper called "hanging paper" is classified in industry 2621. Establishments primarily engaged in the manufacture of stationery, tablets and related products are classified in industry 2648.

The total value of shipments for establishments classified in the Converted Paper Products, N.E.C. industry amounted to $1,698 million in 1977, an increase of 171 percent from 1972. The value of shipments of products classified as primary to the industry was $1,749 million, an increase of 164 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $834 million in 1977, was 156 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 29.4 thousand employees, an increase of 63 percent from 1972. The leading States in employment were New York, Massachusetts, Pennsylvania, and Tennessee, accounting for approximately 50 percent of the

industry's 1977 employment. This represents a shift from 1972 when New York, Pennsylvania, Illinois, and California accounted for approximately 40 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 10 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

(For explanation of terms, see appendix A)

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (mil. dol.)	Production workers: Number (1,000)	Production workers: Hours (mil.)	Production workers: Wages (mil. dol.)	Value added by manufacture (mil. dol.)	Cost of materials (mil. dol.)	Value of shipments (mil. dol.)	Expenditures and assets: New capital expenditures (mil. dol.)	Expenditures and assets: Gross value of fixed assets (mil. dol.)	End-of-year inventories (mil. dol.)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2641, PAPER COATING AND GLAZING																
1977 Census.	454	529	239	39.7	551.2	27.2	56.8	335.1	1 507.0	1 908.3	3 392.0	98.7	(NA)	451.2	80	87
1976 ASM....	(NA)	(NA)	(NA)	39.3	512.7	26.8	56.1	319.6	1 366.9	1 751.2	3 073.7	92.0	914.6	403.2	(NA)	(NA)
1975 ASM....	(NA)	(NA)	(NA)	36.6	437.4	24.8	49.1	265.8	1 199.4	1 386.8	2 626.1	107.5	947.2	358.3	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	40.8	456.5	28.5	59.2	286.9	1 347.7	1 454.8	2 644.7	84.0	851.6	446.1	(NA)	(NA)
1973 ASM....	(NA)	(NA)	(NA)	39.3	408.3	27.3	59.1	264.1	1 190.6	1 109.6	2 284.6	69.8	921.1	304.3	(NA)	(NA)
1972 Census.	366	426	217	37.2	366.6	26.5	55.7	231.9	984.4	984.8	1 954.0	52.3	887.0	256.7	76	86
1971 ASM....	(NA)	(NA)	(NA)	38.4	342.5	27.1	55.8	210.9	912.3	932.1	1 831.8	42.4	783.5	246.4	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	38.3	327.1	27.3	56.1	200.7	880.4	877.2	1 749.9	76.6	769.3	228.2	(NA)	(NA)
1969 ASM....	(NA)	(NA)	(NA)	38.9	314.5	27.7	59.1	197.9	828.7	911.8	1 721.8	77.4	565.1	247.2	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	33.7	258.7	24.0	52.8	161.9	659.1	809.0	1 443.2	59.1	478.4	185.2	(NA)	(NA)
1967 Census.	334	397	202	37.1	260.8	27.0	56.4	165.6	728.0	843.3	1 566.5	59.1	542.0	173.7	79	87
1966 ASM....	(NA)	(NA)	(NA)	35.6	240.3	24.8	54.1	154.5	588.7	807.0	1 383.5	49.7	(NA)	164.2	(NA)	(NA)
1965 ASM....	(NA)	(NA)	(NA)	33.3	225.7	23.9	52.0	144.7	525.7	770.5	1 289.8	39.0	(NA)	152.1	(NA)	(NA)
1964 ASM....	(NA)	(NA)	(NA)	31.7	200.8	22.4	49.6	129.9	467.2	701.2	1 167.4	36.6	402.3	133.9	(NA)	(NA)
1963 Census.	323	387	181	32.0	200.8	23.3	49.9	130.3	457.4	709.9	1 161.6	45.6	374.6	139.0	82	78
INDUSTRY 2642, ENVELOPES																
1977 Census.	182	265	184	22.6	270.0	17.6	34.6	182.4	503.4	493.4	990.5	22.9	(NA)	122.2	97	93
1976 ASM....	(NA)	(NA)	(NA)	21.7	247.0	16.8	33.0	163.4	440.6	434.0	870.2	22.7	268.8	109.1	(NA)	(NA)
1975 ASM....	(NA)	(NA)	(NA)	21.9	233.7	16.9	33.0	152.0	426.9	399.9	829.6	19.1	262.2	107.7	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	24.3	235.3	19.3	38.2	159.5	472.2	405.9	868.0	19.2	252.8	122.3	(NA)	(NA)
1973 ASM....	(NA)	(NA)	(NA)	23.3	210.4	18.8	38.1	145.7	382.4	312.2	690.1	21.1	232.3	92.5	(NA)	(NA)
1972 Census.	178	247	183	22.9	194.6	18.4	37.3	134.7	347.1	276.1	620.8	17.4	231.9	73.5	96	95
1971 ASM....	(NA)	(NA)	(NA)	22.4	181.7	17.8	35.6	123.7	314.2	260.4	573.5	23.1	202.0	71.6	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	23.4	178.3	18.8	38.6	122.8	318.4	259.8	574.3	21.6	192.0	68.4	(NA)	(NA)
1969 ASM....	(NA)	(NA)	(NA)	23.5	164.6	18.9	38.6	113.6	307.0	246.7	552.1	18.0	175.6	66.0	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	22.9	151.2	18.3	37.3	104.1	271.0	224.6	493.0	16.2	158.6	61.0	(NA)	(NA)
1967 Census.	172	228	163	22.5	141.9	18.1	37.6	98.0	253.1	219.5	470.3	13.4	147.1	58.4	95	96
1966 ASM....	(NA)	(NA)	(NA)	22.1	135.8	17.7	37.4	93.9	242.5	208.9	446.3	13.1	(NA)	60.5	(NA)	(NA)
1965 ASM....	(NA)	(NA)	(NA)	21.8	125.2	18.2	36.5	88.2	209.7	195.6	403.0	10.4	(NA)	50.9	(NA)	(NA)
1964 ASM....	(NA)	(NA)	(NA)	20.6	116.4	16.4	34.0	79.6	191.1	176.7	365.7	9.0	129.3	45.2	(NA)	(NA)
1963 Census.	180	230	173	20.7	114.9	16.4	34.2	78.6	189.0	174.1	363.2	8.1	119.8	43.7	94	96
INDUSTRY 2643, BAGS, EXCEPT TEXTILE BAGS																
1977 Census.	461	596	355	48.7	584.1	38.8	77.6	411.7	1 349.6	2 140.5	3 482.3	93.4	(NA)	424.9	88	90
1976 ASM....	(NA)	(NA)	(NA)	50.7	549.7	40.9	79.5	388.2	1 363.8	2 026.8	3 379.5	93.9	970.0	415.0	(NA)	(NA)
1975 ASM....	(NA)	(NA)	(NA)	48.8	482.5	39.4	73.2	335.2	1 215.9	1 756.6	2 980.1	94.5	861.6	385.2	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	51.6	468.4	42.3	84.6	336.5	1 326.1	1 590.5	2 867.1	65.5	756.8	382.3	(NA)	(NA)
1973 ASM....	(NA)	(NA)	(NA)	49.5	411.7	39.5	79.6	300.0	962.5	1 214.1	2 182.6	51.8	715.1	244.4	(NA)	(NA)
1972 Census.	466	583	331	48.6	385.5	38.9	78.9	279.4	840.5	1 055.1	1 885.7	53.9	720.0	225.1	88	88
1971 ASM....	(NA)	(NA)	(NA)	50.3	373.0	40.7	81.7	269.9	740.1	1 031.3	1 771.9	94.9	741.0	213.5	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	53.2	363.4	43.1	87.0	261.1	713.7	1 008.8	1 711.3	81.4	663.8	212.5	(NA)	(NA)
1969 ASM....	(NA)	(NA)	(NA)	49.6	323.0	39.3	81.1	223.9	674.2	892.3	1 559.1	46.0	526.1	185.3	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	47.4	303.9	38.0	79.5	215.6	649.6	836.6	1 482.8	37.0	519.7	166.8	(NA)	(NA)
1967 Census.	466	557	310	46.3	278.3	37.1	75.6	197.4	563.7	819.4	1 375.6	45.6	489.3	163.6	86	88
1966 ASM....	(NA)	(NA)	(NA)	47.1	273.2	37.7	78.2	191.7	558.0	808.0	1 358.5	54.2	(NA)	165.3	(NA)	(NA)
1965 ASM....	(NA)	(NA)	(NA)	43.9	242.2	35.1	71.6	171.3	475.0	740.9	1 207.3	34.9	(NA)	149.8	(NA)	(NA)
1964 ASM....	(NA)	(NA)	(NA)	43.6	233.4	35.1	71.9	166.8	404.0	702.4	1 099.7	41.6	398.5	133.7	(NA)	(NA)
1963 Census.	495	586	297	42.3	219.1	34.3	69.1	156.7	369.7	689.8	1 061.7	26.7	365.2	134.1	86	88
INDUSTRY 2645, DIE-CUT PAPER AND BOARD																
1977 Census.	317	371	141	14.3	174.6	11.3	22.7	119.6	429.5	640.9	1 057.7	15.3	(NA)	114.3	88	84
1976 ASM[6]...	(NA)	(NA)	(NA)	15.3	169.4	11.8	23.2	112.8	402.6	626.4	1 027.3	28.6	205.5	98.9	(NA)	(NA)
1975 ASM[6]...	(NA)	(NA)	(NA)	14.8	155.8	11.5	22.4	105.5	373.0	566.3	942.9	17.1	(S)	97.8	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	16.5	159.3	12.9	25.5	109.2	394.3	534.1	923.3	23.3	(S)	105.5	(NA)	(NA)
1973 ASM....	(NA)	(NA)	(NA)	15.9	145.0	12.2	24.7	99.1	331.4	421.6	747.4	12.9	(S)	67.5	(NA)	(NA)
1972 Census.	311	374	159	15.2	132.5	11.8	23.7	90.5	301.6	375.7	676.3	10.6	(S)	57.7	89	89
1971 ASM....	(NA)	(NA)	(NA)	17.3	136.0	13.3	27.0	92.4	303.4	337.0	638.3	16.1	195.4	63.6	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	18.2	136.7	14.1	28.5	91.1	271.5	341.0	612.5	17.8	205.8	59.8	(NA)	(NA)
1969 ASM....	(NA)	(NA)	(NA)	18.9	134.7	14.6	29.9	89.8	270.2	360.4	627.5	17.6	164.7	61.9	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	19.1	131.6	14.6	30.0	86.6	260.5	285.5	548.3	14.8	145.7	53.2	(NA)	(NA)
1967 Census.	368	440	189	18.6	117.3	14.7	29.4	79.9	247.3	329.1	577.5	9.0	152.1	56.1	86	86
1966 ASM....	(NA)	(NA)	(NA)	18.3	113.4	13.9	28.3	74.1	232.7	290.2	512.5	8.4	(NA)	55.5	(NA)	(NA)
1965 ASM....	(NA)	(NA)	(NA)	16.5	96.0	12.7	24.8	61.5	181.3	227.2	407.3	8.9	(NA)	40.6	(NA)	(NA)
1964 ASM[6]...	(NA)	(NA)	(NA)	16.2	90.8	12.8	24.8	61.5	181.3	227.2	407.3	8.9	139.1	40.6	(NA)	(NA)
1963 Census.	370	425	156	15.1	83.4	11.7	23.5	57.1	183.2	200.3	378.3	7.7	129.1	37.4	88	82

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

(For explanation of terms, see appendix A)

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (mil. dol.)	Production workers: Number (1,000)	Production workers: Hours (mil.)	Production workers: Wages (mil. dol.)	Value added by manufacture (mil. dol.)	Cost of materials (mil. dol.)	Value of shipments (mil. dol.)	Expenditures and assets: New capital expenditures (mil. dol.)	Expenditures and assets: Gross value of fixed assets (mil. dol.)	End-of-year inventories (mil. dol.)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2646, PRESSED AND MOLDED PULP GOODS																
1977 Census.	25	38	27	4.9	58.8	4.0	8.4	48.7	153.7	90.1	240.3	10.9	(NA)	24.5	98	99
1976 ASM....	(NA)	(NA)	(NA)	5.3	58.8	4.3	8.5	45.0	130.1	84.7	218.3	9.8	192.3	22.1	(NA)	(NA)
1975 ASM....	(NA)	(NA)	(NA)	5.3	53.1	4.3	8.8	41.3	130.4	80.9	210.2	7.4	187.3	25.3	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	5.6	53.6	4.6	9.6	41.6	121.0	83.5	205.0	12.1	185.1	23.9	(NA)	(NA)
1973 ASM....	(NA)	(NA)	(NA)	5.6	49.8	4.6	9.5	38.4	108.2	57.8	168.1	8.0	182.2	18.5	(NA)	(NA)
1972 Census.	34	49	38	6.1	51.8	5.0	10.2	39.5	100.6	60.7	162.8	7.0	192.8	19.4	98	97
1971 ASM....	(NA)	(NA)	(NA)	6.6	55.1	5.3	11.3	41.3	114.6	65.3	177.0	7.4	190.4	24.8	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	6.3	49.5	5.1	10.6	36.6	104.1	57.7	160.1	8.7	184.0	20.0	(NA)	(NA)
1969 ASM....	(NA)	(NA)	(NA)	6.7	49.4	5.4	11.3	35.9	107.3	54.9	161.4	12.0	178.9	19.2	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	6.7	46.6	5.3	11.1	34.1	108.0	53.8	161.9	11.2	(S)	17.3	(NA)	(NA)
1967 Census.	43	58	45	6.7	44.8	5.4	11.4	33.0	97.8	48.7	145.9	17.6	(S)	16.2	[7]95	[7]95
1966 ASM....	(NA)	(NA)	(NA)	7.0	43.3	5.4	11.4	31.5	97.9	52.9	151.5	10.0	(NA)	15.4	(NA)	(NA)
1965 ASM....	(NA)	(NA)	(NA)	6.7	41.3	5.4	11.2	29.9	93.0	51.9	145.4	17.3	(NA)	15.1	(NA)	(NA)
1964 ASM[6]...	(NA)	(NA)	(NA)	6.8	39.7	5.6	11.6	29.7	81.8	49.3	130.7	11.1	98.9	13.9	(NA)	(NA)
1963 Census.	43	59	42	5.7	32.9	4.5	9.7	24.2	70.0	40.7	110.1	11.6	89.8	14.1	99	96
INDUSTRY 2647, SANITARY PAPER PRODUCTS																
1977 Census.	72	120	89	34.5	509.1	27.4	54.5	381.8	2 194.5	2 781.5	4 921.2	199.1	(NA)	409.9	93	99
1976 ASM....	(NA)	(NA)	(NA)	32.9	439.7	26.5	52.9	327.0	1 809.0	2 601.7	4 409.7	108.4	964.2	333.2	(NA)	(NA)
1975 ASM....	(NA)	(NA)	(NA)	31.4	381.0	25.7	51.3	284.0	1 606.1	2 297.7	3 883.9	121.2	882.9	331.7	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	31.3	345.0	25.7	51.8	260.1	1 435.6	1 876.3	3 265.4	65.2	811.0	302.3	(NA)	(NA)
1973 ASM....	(NA)	(NA)	(NA)	28.2	290.5	23.4	46.3	222.2	987.3	1 348.0	2 325.3	109.0	797.6	185.7	(NA)	(NA)
1972 Census.	74	108	85	26.3	256.1	21.8	43.6	197.2	882.8	1 197.8	2 071.8	119.6	708.3	155.0	95	97
1971 ASM....	(NA)	(NA)	(NA)	24.0	217.4	19.6	40.0	163.9	780.3	947.4	1 715.7	52.9	532.2	123.2	(NA)	(NA)
1970 ASM....	(NA)	(NA)	(NA)	24.6	204.5	20.0	40.7	153.3	763.5	896.1	1 654.3	50.5	522.4	104.0	(NA)	(NA)
1969 ASM....	(NA)	(NA)	(NA)	25.3	199.3	20.8	43.7	155.6	722.1	908.2	1 621.8	59.4	445.2	103.0	(NA)	(NA)
1968 ASM....	(NA)	(NA)	(NA)	23.0	170.0	18.9	38.6	130.7	615.3	809.0	1 420.4	58.2	362.9	84.4	(NA)	(NA)
1967 Census.	91	125	86	22.0	154.2	18.3	37.6	119.2	540.2	757.8	1 293.4	58.5	322.2	78.9	94	96
1966 ASM....	(NA)	(NA)	(NA)	20.2	136.9	16.9	35.0	104.8	476.5	715.6	1 185.8	48.6	(NA)	73.3	(NA)	(NA)
1965 ASM....	(NA)	(NA)	(NA)	19.5	123.8	16.0	33.2	94.4	418.4	683.8	1 104.9	38.7	(NA)	64.7	(NA)	(NA)
1964 ASM....	(NA)	(NA)	(NA)	19.2	117.3	15.8	32.7	89.6	390.7	644.0	1 029.3	26.4	214.8	66.2	(NA)	(NA)
1963 Census.	97	119	77	19.1	112.5	15.3	32.3	85.9	369.7	619.4	983.0	16.6	197.2	59.4	93	97
INDUSTRY 2648, STATIONERY PRODUCTS[3]																
1977 Census.	221	242	109	12.6	135.2	9.8	18.5	91.0	291.0	364.4	651.7	15.9	(NA)	118.2	86	80
1976 ASM[6]...	(NA)	(NA)	(NA)	12.3	124.3	9.5	18.4	83.2	306.8	355.8	652.9	12.7	141.7	113.2	(NA)	(NA)
1975 ASM[6]...	(NA)	(NA)	(NA)	12.1	114.6	9.3	18.0	72.9	256.4	314.8	591.3	15.5	133.2	103.3	(NA)	(NA)
1974 ASM....	(NA)	(NA)	(NA)	13.3	115.5	10.4	20.6	79.0	305.9	323.7	604.6	8.0	131.9	130.9	(NA)	(NA)
1973 ASM....	(NA)	(NA)	(NA)	15.0	112.5	11.7	22.3	77.3	242.0	257.9	493.1	6.5	137.8	102.0	(NA)	(NA)
1972 Census.	406	431	131	14.7	106.3	11.5	22.3	72.6	225.6	230.5	450.5	9.3	143.1	88.4	85	82
INDUSTRY 2649, CONVERTED PAPER PRODUCTS, N.E.C.[3]																
1977 Census.	774	833	291	29.4	325.1	21.9	43.3	201.1	834.3	887.3	1 697.5	51.1	(NA)	277.7	88	81
1976 ASM[6]...	(NA)	(NA)	(NA)	22.8	254.8	16.7	34.1	156.2	628.4	669.3	1 288.3	25.4	364.4	201.8	(NA)	(NA)
1975 ASM....	(NA)	(NA)	(NA)	21.7	216.4	15.9	32.2	129.9	520.4	559.4	1 090.4	29.6	356.1	193.6	(NA)	(NA)
1974 ASM[6]...	(NA)	(NA)	(NA)	24.0	216.1	17.9	36.7	138.2	517.6	575.4	1 079.4	37.7	329.3	217.5	(NA)	(NA)
1973 ASM[6]...	(NA)	(NA)	(NA)	22.0	179.3	17.0	33.5	117.8	436.3	410.4	833.0	25.4	224.5	151.6	(NA)	(NA)
1972 Census.	289	307	181	18.1	136.6	14.0	27.6	88.8	325.6	307.7	630.6	18.5	214.5	96.8	83	74

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. [r]Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the industry chapter.

[2]For the census, a company is defined as a business orgainzation consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, fomula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

(For explanation of terms, see appendix A)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2641, PAPER COATING AND GLAZING											
1977 Census..	13 900	(NA)	68	2 083	5.90	56	72	(NA)	38 003	36	26.54
1976 ASM.....	13 045	23 272	68	2 093	5.69	56	73	29	34 781	37	24.36
1975 ASM.....	11 950	25 879	67	1 979	5.41	52	69	36	32 770	36	24.42
1974 ASM.....	11 188	20 872	69	2 077	4.84	55	72	32	33 031	33	22.76
1973 ASM.....	10 389	23 437	69	2 164	4.46	48	66	40	30 295	34	20.14
1972 Census..	9 854	23 844	71	2 101	4.16	50	69	45	26 462	37	17.67
1971 ASM.....	8 919	20 403	70	2 059	3.77	50	69	42	23 757	37	16.34
1970 ASM.....	8 540	20 086	71	2 054	3.57	50	68	43	22 986	37	15.69
1969 ASM.....	8 084	14 526	71	2 133	3.34	52	71	32	21 303	37	14.02
1968 ASM.....	7 676	14 195	71	2 200	3.06	56	73	33	19 557	39	12.48
1967 Census..	7 029	14 609	72	2 088	2.93	53	70	34	19 622	35	12.90
1966 ASM.....	6 750	(NA)	69	2 181	2.85	58	75	(NA)	16 536	40	10.88
1965 ASM.....	6 777	(NA)	71	2 175	2.78	59	77	(NA)	15 786	42	10.10
1964 ASM.....	6 334	12 690	70	2 214	2.61	60	77	34	14 738	42	9.41
1963 Census..	6 275	11 706	72	2 141	2.61	61	78	32	14 293	43	9.16
INDUSTRY 2642, ENVELOPES											
1977 Census..	11 965	(NA)	77	1 965	5.27	49	77	(NA)	22 311	53	14.56
1976 ASM.....	11 382	12 387	77	1 964	4.95	49	78	30	20 304	56	13.35
1975 ASM.....	10 671	11 972	77	1 952	4.60	48	76	31	19 493	54	12.93
1974 ASM.....	9 683	10 403	79	1 979	4.17	46	73	29	19 432	49	12.36
1973 ASM.....	9 030	9 969	80	2 026	3.82	45	75	33	16 412	55	10.03
1972 Census..	8 497	10 126	80	2 027	3.61	44	75	37	15 157	56	9.30
1971 ASM.....	8 111	9 017	79	2 000	3.47	45	77	35	14 026	57	8.82
1970 ASM.....	7 619	8 205	80	2 053	3.18	45	76	33	13 606	55	8.24
1969 ASM.....	7 004	7 472	80	2 042	2.94	44	74	31	13 063	53	7.95
1968 ASM.....	6 602	6 925	79	2 038	2.79	45	76	32	11 834	55	7.26
1967 Census..	6 306	6 537	80	2 077	2.60	46	76	31	11 248	56	6.73
1966 ASM.....	6 144	(NA)	80	2 112	2.51	46	77	(NA)	10 972	56	6.48
1965 ASM.....	5 743	(NA)	83	2 005	2.41	48	79	(NA)	9 619	59	5.74
1964 ASM.....	5 650	6 276	79	2 073	2.34	48	80	35	9 276	60	5.62
1963 Census..	5 550	5 787	79	2 085	2.29	47	79	32	9 130	60	5.52
INDUSTRY 2643, BAGS, EXCEPT TEXTILE BAGS											
1977 Census..	11 984	(NA)	79	2 000	5.30	61	78	(NA)	27 690	43	17.39
1976 ASM.....	10 842	19 132	80	1 943	4.88	59	76	28	26 899	40	17.15
1975 ASM.....	9 887	17 655	80	1 857	4.57	58	75	28	24 915	39	16.61
1974 ASM.....	9 077	14 666	81	2 000	3.97	55	71	26	25 699	35	15.67
1973 ASM.....	8 317	14 446	79	2 015	3.76	55	74	32	19 444	42	12.09
1972 Census..	7 932	14 814	80	2 028	3.54	55	76	38	17 294	45	10.65
1971 ASM.....	7 415	14 731	80	2 007	3.30	58	79	41	14 713	50	9.05
1970 ASM.....	6 830	12 477	81	2 018	3.00	58	80	38	13 415	50	8.20
1969 ASM.....	6 512	10 606	79	2 063	2.76	57	77	33	13 592	47	8.31
1968 ASM.....	6 411	10 964	80	2 092	2.71	56	76	35	13 704	46	8.17
1967 Census..	6 010	10 568	80	2 037	2.61	59	79	35	12 174	49	7.45
1966 ASM.....	5 800	(NA)	80	2 074	2.45	59	79	(NA)	11 847	48	7.13
1965 ASM.....	5 517	(NA)	79	2 039	2.39	61	81	(NA)	10 820	50	6.63
1964 ASM.....	5 353	9 139	80	2 048	2.31	63	85	36	9 266	57	5.61
1963 Census..	5 179	8 633	81	2 014	2.26	64	85	34	8 739	59	5.35
INDUSTRY 2645, DIE-CUT PAPER AND BOARD											
1977 Census..	12 169	(NA)	78	2 006	5.28	60	77	(NA)	29 935	40	18.96
1976 ASM.....	11 071	13 431	77	1 966	4.86	60	77	20	26 313	42	17.35
1975 ASM.....	10 527	(S)	77	1 947	4.70	60	76	(S)	25 202	41	16.65
1974 ASM.....	9 654	(S)	78	1 976	4.28	57	75	(S)	23 896	40	15.46
1973 ASM.....	9 119	(S)	76	2 024	4.01	56	75	(S)	20 842	43	13.41
1972 Census..	8 717	(S)	77	2 008	3.81	55	75	(S)	19 842	43	12.72
1971 ASM.....	7 861	11 294	76	2 030	3.42	52	74	30	17 537	44	11.23
1970 ASM.....	7 510	11 307	77	2 021	3.19	55	77	33	14 917	50	9.52
1969 ASM.....	7 126	8 714	77	2 047	3.00	57	78	26	14 296	49	9.03
1968 ASM.....	6 890	7 628	76	2 054	2.88	52	76	26	13 638	50	8.68
1967 Census..	6 306	8 177	79	2 000	2.71	56	77	26	13 295	47	8.41
1966 ASM.....	6 196	(NA)	75	2 035	2.61	56	78	(NA)	12 715	48	8.22
1965 ASM.....	5 818	(NA)	76	1 952	2.47	55	79	(NA)	10 987	52	7.31
1964 ASM.....	5 604	8 586	79	1 937	2.47	55	78	34	11 191	50	7.31
1963 Census..	5 523	8 549	77	2 008	2.42	52	74	34	12 132	45	7.79

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

(For explanation of terms, see appendix A)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2646, PRESSED AND MOLDED PULP GOODS										
1977 Census..	12 065	(NA)	81	2 112	5.79	37	61	(NA)	31 514	38	18.30
1976 ASM.....	11 094	36 283	81	1 976	5.29	38	65	88	24 547	45	15.30
1975 ASM.....	10 018	35 339	81	2 046	4.69	38	63	89	24 603	40	14.81
1974 ASM.....	9 571	33 053	82	2 086	4.33	40	66	90	21 607	44	12.60
1973 ASM.....	8 892	32 535	82	2 065	4.04	34	64	108	19 321	46	11.38
1972 Census..	8 491	31 606	81	2 040	3.87	37	69	118	16 491	51	9.86
1971 ASM.....	8 348	28 848	80	2 132	3.65	36	68	107	17 363	48	10.14
1970 ASM.....	7 857	29 206	80	2 078	3.45	36	66	114	16 523	47	9.82
1969 ASM.....	7 373	26 701	80	2 092	3.17	34	64	110	16 014	46	9.49
1968 ASM.....	6 955	(S)	79	2 094	3.07	33	62	(S)	16 119	43	9.72
1967 Census..	6 686	(S)	80	2 111	2.89	33	64	(S)	14 597	45	8.57
1966 ASM.....	6 185	(NA)	77	2 111	2.76	34	63	(NA)	13 985	44	8.58
1965 ASM.....	6 164	(NA)	80	2 074	2.66	35	64	(NA)	13 880	44	8.30
1964 ASM.....	5 838	14 544	82	2 071	2.56	37	68	75	12 029	48	7.05
1963 Census..	5 771	15 754	78	2 155	2.49	36	66	81	12 280	47	7.21
	INDUSTRY 2647, SANITARY PAPER PRODUCTS										
1977 Census..	14 767	(NA)	79	1 986	7.01	56	66	(NA)	63 656	23	40.29
1976 ASM.....	13 364	29 306	80	1 996	6.18	58	68	21	54 984	24	34.19
1975 ASM.....	12 133	28 117	81	1 996	5.53	59	68	22	51 149	23	31.30
1974 ASM.....	11 022	25 910	82	2 015	5.02	57	68	24	45 865	24	27.71
1973 ASM.....	10 301	28 283	82	1 978	4.79	57	70	34	35 010	29	21.32
1972 Census..	9 737	26 931	82	2 000	4.52	57	70	34	33 566	29	20.24
1971 ASM.....	9 058	22 175	81	2 040	4.09	55	67	31	32 512	27	19.50
1970 ASM.....	8 313	21 235	81	2 035	3.76	54	66	31	31 036	26	18.75
1969 ASM.....	7 877	17 596	82	2 100	3.56	55	68	27	28 541	27	16.52
1968 ASM.....	7 391	15 778	82	2 042	3.38	56	68	25	26 752	27	15.94
1967 Census..	7 009	14 645	83	2 054	3.17	58	70	24	24 554	28	14.36
1966 ASM.....	6 777	(NA)	83	2 071	2.99	60	71	(NA)	23 589	28	13.61
1965 ASM.....	6 348	(NA)	82	2 075	2.84	61	73	(NA)	21 456	29	12.60
1964 ASM.....	6 109	11 187	82	2 069	2.74	62	73	20	20 348	30	11.94
1963 Census..	5 890	10 324	80	2 111	2.65	63	74	20	19 356	30	11.44
	INDUSTRY 2648, STATIONERY PRODUCTS										
1977 Census..	10 697	(NA)	77	1 883	4.92	55	76	(NA)	23 021	46	15.76
1976 ASM.....	10 105	11 520	77	1 936	4.52	54	73	21	24 943	40	16.67
1975 ASM.....	9 471	11 008	76	1 935	4.05	53	72	22	21 190	44	14.24
1974 ASM.....	8 684	9 917	78	1 980	3.83	53	72	21	23 000	37	14.84
1973 ASM.....	7 500	9 186	78	1 905	3.46	52	75	27	16 133	46	10.85
1972 Census..	7 231	9 734	78	1 939	3.25	51	74	31	15 346	47	10.11
	INDUSTRY 2649, CONVERTED PAPER PRODUCTS, N.E.C.										
1977 Census..	11 040	(NA)	75	1 971	4.65	52	71	(NA)	28 335	39	19.29
1976 ASM.....	11 175	15 982	73	2 041	4.58	51	71	28	27 561	40	18.42
1975 ASM.....	9 972	16 410	73	2 025	4.03	51	71	32	23 981	41	16.16
1974 ASM.....	9 004	13 720	74	2 050	3.76	53	73	30	21 566	41	14.10
1973 ASM.....	8 150	10 204	77	1 970	3.51	49	70	26	19 831	41	13.02
1972 Census..	7 546	11 850	77	1 971	3.21	48	70	34	17 988	41	11.79

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 2641, PAPER COATING AND GLAZING														
United States	-	**529**	**239**	**39.7**	**551.2**	**27.2**	**56.8**	**335.1**	**1 507.0**	**1 908.3**	**3 392.0**	**98.7**	**37.2**	**984.4**
New England Division:														
New Hampshire	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Massachusetts	-	41	22	3.5	46.4	2.3	5.0	27.5	101.3	137.1	236.2	6.1	2.9	58.6
Rhode Island	E1	9	4	0.4	4.5	0.3	0.6	2.8	7.5	16.7	23.8	0.2	0.3	5.6
Connecticut	-	10	4	0.3	3.5	0.2	0.4	2.1	8.1	9.3	17.1	0.6	(NA)	(NA)
Middle Atlantic Division:														
New York	E1	48	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	37.3
New Jersey	-	40	23	2.6	39.1	1.6	3.3	20.9	76.1	103.4	179.3	2.7	2.8	54.3
Pennsylvania	-	31	15	2.4	33.8	1.7	3.5	21.1	110.0	141.3	247.6	4.3	1.4	46.0
East North Central Division:														
Ohio	-	40	21	5.4	76.7	3.0	6.2	38.8	171.7	188.2	360.2	15.8	4.5	99.1
Indiana	-	11	5	0.8	10.1	0.5	1.0	6.0	25.0	42.9	66.5	1.4	0.6	14.2
Illinois	-	45	24	3.4	46.4	2.4	5.1	29.3	128.5	154.8	282.5	10.2	FF	(D)
Michigan	-	22	10	1.7	26.7	1.2	2.6	17.2	59.5	88.7	149.3	3.5	2.4	47.7
Wisconsin	-	21	14	3.7	57.5	2.7	5.5	37.5	157.6	255.2	409.1	4.1	3.1	72.4
West North Central Division:														
Minnesota	-	10	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Iowa	-	8	6	0.7	9.9	0.5	1.1	6.2	33.4	66.2	98.0	(D)	0.5	13.7
Missouri	-	10	4	0.6	7.6	0.5	1.0	4.6	21.8	31.8	53.1	(D)	CC	(D)
South Atlantic Division:														
North Carolina	E1	10	7	0.9	8.4	0.7	1.5	6.5	23.3	25.8	48.3	1.6	BB	(D)
South Carolina	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Georgia	-	9	6	1.0	13.6	0.7	1.5	8.6	30.2	65.2	94.9	(D)	(NA)	(NA)
Florida	-	10	2	0.2	1.9	0.1	0.3	1.4	5.2	9.3	14.6	0.3	0.2	2.5
East South Central Division:														
Kentucky	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Tennessee	-	10	6	0.8	7.1	0.6	1.2	4.8	21.0	37.1	58.3	1.2	0.6	12.1
Mississippi	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
West South Central Division:														
Louisiana	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Texas	-	28	6	0.7	8.0	0.5	1.0	5.1	17.7	32.8	50.7	2.6	BB	(D)
Pacific Division:														
Washington	E1	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oregon	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
California	E1	59	17	1.9	26.9	1.4	2.8	17.3	63.2	89.7	151.1	5.4	EE	(D)
INDUSTRY 2642, ENVELOPES														
United States	-	**265**	**184**	**22.8**	**270.0**	**17.6**	**34.8**	**182.4**	**503.4**	**493.4**	**990.5**	**22.9**	**22.9**	**347.1**
New England Division:														
Massachusetts	-	8	7	1.5	16.3	1.3	2.4	12.2	31.9	35.7	67.4	1.5	EE	(D)
Connecticut	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	-	39	28	3.3	36.0	2.6	5.0	25.5	75.0	76.8	150.8	4.0	2.9	44.1
New Jersey	-	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Pennsylvania	-	16	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East North Central Division:														
Ohio	-	14	9	1.5	17.4	1.1	2.3	11.6	31.8	32.8	63.9	1.1	1.4	19.2
Indiana	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Illinois	E1	27	18	2.5	31.5	2.0	4.0	22.1	49.9	49.7	99.5	2.0	3.2	45.0
Michigan	E1	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	8.7
Wisconsin	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West North Central Division:														
Minnesota	-	11	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	12.2
Iowa	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri	-	12	8	1.1	14.8	0.9	1.7	9.7	25.2	24.2	49.1	2.4	1.2	20.0
Nebraska	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Kansas	-	5	4	0.2	2.1	0.1	0.3	1.6	4.8	3.6	8.5	(D)	AA	(D)
South Atlantic Division:														
Maryland	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	4.0
Virginia	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	-	6	5	0.6	6.6	0.5	0.8	4.3	14.5	13.2	26.8	(D)	0.5	9.1
Florida	-	8	7	0.4	4.6	0.3	0.7	2.8	9.5	9.9	19.1	0.7	BB	(D)
East South Central Division:														
Kentucky	E1	4	2	0.2	1.9	0.1	0.3	1.2	4.1	3.7	7.7	0.1	(NA)	(NA)
Tennessee	-	4	4	0.5	4.7	0.4	0.7	3.1	10.2	10.2	20.2	0.1	BB	(D)
Mississippi	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Texas	-	14	11	1.1	12.9	0.8	1.6	8.2	24.4	24.9	49.4	0.7	EE	(D)
Mountain Division:														
Colorado	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
Washington	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Oregon	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
California	-	30	22	2.0	26.7	1.4	2.9	18.3	50.2	43.8	93.2	2.0	1.8	31.0

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2643, BAGS, EXCEPT TEXTILE BAGS														
United States	-	**596**	**355**	**48.7**	**584.1**	**38.8**	**77.6**	**411.7**	**1 349.6**	**2 140.5**	**3 482.3**	**93.4**	**48.8**	**840.5**
New England Division:														
Massachusetts	-	19	8	1.0	12.0	0.8	1.8	8.9	28.9	41.7	70.1	4.5	1.1	19.7
Rhode Island	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.9
Connecticut	E1	4	3	0.2	2.1	0.1	0.3	1.3	4.7	6.2	10.9	(D)	BB	(D)
Middle Atlantic Division:														
New York	E2	91	44	4.9	57.9	3.8	7.5	35.3	118.7	169.0	286.7	13.0	5.2	79.4
New Jersey	-	38	24	2.0	24.9	1.6	3.2	17.6	76.8	112.9	189.1	6.5	2.3	35.3
Pennsylvania	E1	26	14	2.5	30.8	1.9	3.8	21.3	68.6	108.8	177.2	2.8	2.2	43.3
East North Central Division:														
Ohio	-	28	19	2.0	24.3	1.5	3.1	15.0	45.9	70.5	116.4	2.8	1.5	25.8
Indiana	-	16	11	1.7	18.7	1.3	2.7	12.7	44.0	61.3	105.2	1.7	1.1	15.5
Illinois	-	48	26	3.7	46.1	2.9	5.8	28.6	113.7	168.2	280.0	5.7	4.6	90.5
Michigan	-	18	9	0.7	7.9	0.5	1.2	5.5	21.2	35.8	56.6	0.7	0.6	8.1
Wisconsin	-	15	6	1.0	12.7	0.8	1.7	9.5	34.9	39.9	75.2	3.2	0.4	6.0
West North Central Division:														
Minnesota	-	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.4
Iowa	-	6	5	1.1	11.0	0.9	1.7	8.2	40.7	30.2	70.0	0.8	1.1	23.5
Missouri	-	12	10	1.1	13.4	0.9	1.9	8.5	25.8	52.9	78.2	1.8	1.0	16.4
Nebraska	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas	E2	8	5	0.3	3.8	0.3	0.5	2.9	8.6	13.7	22.1	0.7	AA	(D)
South Atlantic Division:														
Maryland	-	8	3	0.3	3.3	0.2	0.3	1.6	7.8	9.8	17.6	0.2	(NA)	(NA)
Virginia	-	12	9	1.3	12.5	1.1	2.1	9.6	27.2	64.4	91.2	1.5	1.4	19.9
West Virginia	-	7	4	0.3	2.8	0.2	0.4	2.2	7.6	13.2	20.9	0.2	0.3	4.7
North Carolina	E1	10	7	0.9	10.7	0.7	1.4	6.5	20.5	31.9	50.6	(D)	0.7	8.7
South Carolina	-	8	4	1.8	20.5	1.4	3.1	14.9	43.9	62.1	104.3	(D)	1.5	37.7
Georgia	-	18	13	3.6	44.2	3.0	5.8	34.6	91.2	168.1	260.1	8.8	4.1	77.6
Florida	-	15	9	1.6	21.0	1.3	2.7	16.0	51.1	97.3	148.9	2.2	1.9	38.8
East South Central Division:														
Kentucky	-	5	4	0.8	10.3	0.6	1.3	6.4	25.4	46.9	72.7	(D)	EE	(D)
Tennessee	-	12	10	1.4	15.2	1.2	2.4	11.5	32.1	56.0	89.7	1.7	1.3	20.8
Alabama	-	6	5	1.8	21.8	1.5	2.7	17.3	33.6	85.9	119.3	1.0	EE	(D)
Mississippi	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Arkansas	-	14	13	1.8	21.7	1.6	3.1	17.1	45.1	90.0	134.5	2.7	EE	(D)
Louisiana	-	13	10	1.8	27.4	1.5	3.0	20.6	58.3	99.3	159.0	1.1	2.6	42.9
Texas	-	28	19	2.7	31.0	2.1	4.2	21.9	93.4	114.7	207.8	9.5	2.5	35.7
Mountain Division:														
Utah	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Pacific Division:														
Washington	-	11	9	1.0	14.2	0.8	1.6	10.9	30.7	44.7	75.1	1.7	CC	(D)
Oregon	-	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	10.3
California	-	56	34	3.5	43.2	2.8	5.7	31.6	107.5	168.9	274.4	7.3	3.1	60.8
INDUSTRY 2645, DIE-CUT PAPER AND BOARD														
United States	-	**371**	**141**	**14.3**	**174.6**	**11.3**	**22.7**	**119.6**	**429.5**	**640.9**	**1 057.7**	**15.3**	**15.2**	**301.6**
New England Division:														
Massachusetts	E1	10	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	E1	74	28	2.1	26.6	1.7	3.4	17.9	52.5	58.2	109.9	2.7	FF	(D)
New Jersey	-	31	12	1.5	21.7	1.1	2.4	13.7	53.9	79.6	132.3	(D)	EE	(D)
Pennsylvania	-	16	7	0.8	6.5	0.7	1.2	4.6	12.7	11.7	23.6	0.2	BB	(D)
East North Central Division:														
Ohio	E3	33	14	1.3	14.2	1.1	2.1	10.4	26.7	35.6	61.6	2.1	1.2	17.4
Indiana	-	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Illinois	E1	37	16	1.6	18.6	1.2	2.2	11.3	34.8	39.3	74.1	1.0	1.5	24.9
Michigan	-	20	10	0.8	10.9	0.7	1.3	8.2	23.0	41.8	64.4	1.0	1.4	20.7
West North Central Division:														
Minnesota	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Missouri	E1	11	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	6.3
South Atlantic Division:														
District of Columbia	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
North Carolina	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Georgia	E2	9	2	0.2	2.9	0.2	0.4	1.9	8.5	7.3	15.9	0.3	0.2	6.5
West South Central Division:														
Arkansas	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Louisiana	-	4	4	0.2	2.5	0.2	0.4	1.4	4.9	8.5	13.3	0.4	(NA)	(NA)
Texas	-	8	3	0.3	2.8	0.2	0.4	2.0	2.3	10.4	12.6	(D)	BB	(D)
Pacific Division:														
Washington	-	6	2	0.2	2.0	0.1	0.2	1.4	3.7	5.0	8.7	(Z)	(NA)	(NA)
California	E1	41	14	1.2	12.6	1.0	1.9	8.9	32.1	33.4	64.7	1.0	1.2	22.5

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2646, PRESSED AND MOLDED PULP GOODS													
United States	-	**38**	**27**	**4.9**	**58.8**	**4.0**	**8.4**	**48.7**	**153.7**	**90.1**	**240.3**	**10.9**	**6.1**	**100.6**
New England Division:													
Maine	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Massachusetts	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East North Central Division:														
Ohio	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Indiana	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Illinois	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Wisconsin	-	5	4	0.2	2.0	0.2	0.3	1.6	6.7	4.8	11.3	0.1	AA	(D)
South Atlantic Division:														
Georgia	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Central Division:														
Mississippi	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
California	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	15.5
INDUSTRY 2647, SANITARY PAPER PRODUCTS														
United States	-	**120**	**89**	**34.5**	**509.1**	**27.4**	**54.5**	**381.8**	**2 194.5**	**2 781.5**	**4 921.2**	**199.1**	**26.3**	**882.8**
New England Division:														
Maine	-	4	3	1.2	14.7	1.0	2.0	12.2	59.8	71.0	130.1	(D)	EE	(D)
New Hampshire	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Vermont	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Massachusetts	-	3	3	0.6	7.2	0.5	0.8	4.5	24.8	18.9	43.6	(D)	1.5	36.5
Connecticut	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Middle Atlantic Division:														
New York	-	16	8	1.2	16.0	1.0	2.1	12.5	54.8	103.1	156.9	3.3	1.0	35.5
New Jersey	-	8	6	2.6	40.4	1.4	2.9	17.3	97.4	99.9	180.4	(D)	EE	(D)
Pennsylvania	-	10	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
East North Central Division:														
Indiana	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois	-	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Michigan	-	4	3	0.7	9.8	0.6	1.1	7.3	39.7	67.3	107.6	(D)	CC	(D)
Wisconsin	-	18	16	6.3	100.2	5.2	10.6	79.3	420.5	505.5	1 015.0	36.4	5.7	159.3
West North Central Division:														
Missouri	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
South Atlantic Division:														
Delaware	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Carolina	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
East South Central Division:														
Tennessee	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Alabama	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West South Central Division:														
Arkansas	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Pacific Division:														
Washington	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Oregon	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
California	-	13	10	2.6	40.8	2.1	4.4	33.8	183.0	266.3	445.1	6.3	EE	(D)
INDUSTRY 2648, STATIONERY PRODUCTS														
United States	-	**242**	**109**	**12.6**	**135.2**	**9.8**	**18.5**	**91.0**	**291.0**	**364.4**	**651.7**	**15.9**	**14.7**	**225.6**
New England Division:														
New Hampshire	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.7
Massachusetts	-	24	11	1.9	22.2	1.4	2.7	13.8	40.4	29.3	69.6	2.8	1.9	26.8
Middle Atlantic Division:														
New York	E3	38	12	0.8	7.4	0.6	1.2	5.2	17.1	21.9	38.7	0.4	1.5	21.3
New Jersey	-	12	6	0.6	6.2	0.5	0.9	4.6	16.2	14.3	30.2	0.2	0.9	14.8
Pennsylvania	-	18	6	1.1	12.4	0.8	1.6	8.0	26.9	34.9	61.1	(D)	1.8	25.0
East North Central Division:														
Ohio	-	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	8.4
Indiana	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Illinois	-	9	6	0.8	9.1	0.6	1.1	5.0	17.8	18.1	35.4	0.8	0.8	14.3
Michigan	-	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Wisconsin	-	11	6	0.4	4.1	0.3	0.5	2.5	9.9	9.8	19.2	0.3	0.3	5.0
West North Central Division:														
Missouri	-	7	5	1.4	15.4	1.2	2.0	11.9	27.5	40.1	67.3	(D)	1.3	16.9

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977												1972	
		All establishments		All employees		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2648, STATIONERY PRODUCTS—Con.														
South Atlantic Division:														
Maryland	-	4	3	0.3	3.1	0.2	0.5	1.9	8.0	10.9	19.3	(D)	AA	(D)
Georgia	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Florida	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	10.8	(D)	0.4	4.8
East South Central Division:														
Tennessee	E1	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	5.7
Alabama	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Texas	-	7	5	0.5	5.6	0.4	0.9	4.1	16.7	21.0	37.1	1.5	0.6	9.9
Pacific Division:														
Oregon	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
California	E1	28	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
INDUSTRY 2649, CONVERTED PAPER PRODUCTS, N.E.C.														
United States	-	**833**	**291**	**29.4**	**325.1**	**21.9**	**43.3**	**201.1**	**834.3**	**887.3**	**1 697.5**	**51.1**	**18.1**	**325.6**
New England Division:														
Vermont	E4	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Massachusetts	-	44	20	4.7	58.0	3.3	6.5	30.7	117.8	123.5	237.3	4.5	1.0	15.4
Rhode Island	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Connecticut	-	10	6	0.4	3.5	0.3	0.5	2.0	10.6	11.4	20.9	0.4	AA	(D)
Middle Atlantic Division:														
New York	E2	104	38	4.3	49.6	3.3	6.6	31.6	100.3	135.7	234.3	7.4	2.7	44.6
New Jersey	-	59	28	2.2	26.8	1.7	3.5	18.4	58.9	87.5	141.8	3.3	0.9	18.6
Pennsylvania	-	47	33	3.3	33.3	2.6	4.9	21.6	90.6	78.2	166.0	4.1	2.6	42.2
East North Central Division:														
Ohio	-	46	13	1.0	10.9	0.7	1.3	6.5	28.9	33.0	61.6	2.4	CC	(D)
Indiana	-	27	14	1.0	10.7	0.8	1.6	7.5	27.6	38.0	64.5	2.3	0.8	12.7
Illinois	-	43	21	1.2	14.5	0.9	1.8	9.2	34.3	34.1	69.6	1.2	1.3	22.1
Michigan	E1	27	9	0.7	7.4	0.6	1.1	5.4	20.9	27.1	47.8	4.0	0.2	4.2
Wisconsin	-	26	9	0.7	8.2	0.5	1.2	5.7	21.7	34.0	55.3	0.8	0.5	8.8
West North Central Division:														
Minnesota	-	9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	AA	(D)
Missouri	E5	16	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kansas	-	14	5	0.9	9.2	0.7	1.3	7.2	44.3	33.4	74.5	0.6	CC	(D)
South Atlantic Division:														
Virginia	-	12	2	0.2	2.2	0.1	0.3	1.5	8.0	11.0	18.7	0.3	(NA)	(NA)
West Virginia	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
North Carolina	-	29	10	0.8	7.5	0.6	1.2	4.4	13.9	20.2	33.7	1.7	0.4	6.3
Florida	E3	28	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
East South Central Division:														
Kentucky	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Tennessee	-	12	5	2.3	20.5	1.5	2.9	11.4	83.9	60.4	142.1	(D)	EE	(D)
West South Central Division:														
Louisiana	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas	E1	33	7	0.5	5.6	0.3	0.7	2.7	15.6	14.8	30.4	0.8	CC	(D)
Pacific Division:														
Oregon	-	7	4	0.3	4.0	0.2	0.5	2.7	10.9	12.1	23.0	(D)	(NA)	(NA)
California	-	77	22	1.6	17.4	1.1	2.1	10.3	48.7	41.8	90.1	2.3	1.0	22.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Paper coating and glazing (SIC 2641)	Envelopes (SIC 2642)	Bags, except textile bags (SIC 2643)	Die-cut paper and board (SIC 2645)	Pressed and molded pulp goods (SIC 2646)	Sanitary paper products (SIC 2647)	Stationery products (SIC 2648)	Converted paper products, n.e.c. (SIC 2649)
Primary product specialization ratio[1]	percent	80	97	88	88	98	93	86	88
Coverage ratio[2]	do	87	83	90	84	99	99	80	81
All establishments	number	529	265	596	371	38	120	242	833
With 1 to 19 employees	do	290	81	241	230	11	31	133	542
With 20 to 99 employees	do	138	100	209	106	13	22	74	231
With 100 employees or more	do	101	84	146	35	14	67	35	60
All employees, average for year	1,000	39.7	22.6	48.7	14.3	4.9	34.5	12.6	29.4
Payroll for year, all employees	mil. dol.	551.2	270.0	584.1	174.6	58.8	509.1	135.2	325.1
Production workers:									
Average for year	1,000	27.2	17.6	38.8	11.3	4.0	27.4	9.8	21.9
March	do	26.6	17.4	37.9	11.0	4.0	26.8	9.7	20.9
May	do	27.1	17.5	38.4	11.2	3.8	27.4	10.4	21.4
August	do	27.7	17.5	39.0	11.4	4.1	27.8	10.2	22.6
November	do	27.5	17.9	39.8	11.5	4.0	27.7	9.0	22.8
Hours	millions	56.8	34.6	77.6	22.7	8.4	54.5	18.5	43.3
January to March	do	13.8	8.6	18.9	5.5	2.0	13.5	4.3	10.1
April to June	do	14.4	8.7	19.4	5.6	2.0	13.8	5.0	10.4
July to September	do	14.1	8.4	19.4	5.7	2.0	13.5	5.0	11.1
October to December	do	14.4	9.0	19.9	5.8	2.5	13.8	4.1	11.6
Wages	mil. dol.	335.1	182.4	411.7	119.6	48.7	381.8	91.0	201.1
Cost of materials, etc.	do	1 908.3	493.4	2 140.5	640.9	90.1	2 781.5	364.4	887.3
Materials, parts, containers, etc., consumed	do	1 790.5	441.3	2 030.6	586.3	66.2	2 686.3	309.2	807.1
Resales	do	55.5	25.3	59.2	40.0	0.2	50.5	47.4	41.0
Fuels consumed	do	28.1	2.7	9.5	4.6	10.8	15.9	1.7	13.9
Purchased electric energy	do	27.5	9.5	35.5	4.7	12.9	25.3	3.5	14.4
Contract work	do	6.7	14.5	5.7	5.3	(Z)	3.5	2.5	11.1
Value of shipments, including resales	do	3 392.0	990.5	3 482.3	1 057.7	240.3	4 921.2	651.7	1 697.5
Value of resales	do	73.2	27.2	62.6	53.3	0.2	63.1	63.0	77.5
Value added by manufacture	do	1 507.0	503.4	1 349.6	429.5	153.7	2 194.5	291.0	834.3
Manufacturers' inventories:									
Beginning of year	do	420.5	109.9	410.8	94.0	22.0	333.8	114.4	241.0
Finished products	do	163.6	42.5	146.8	33.4	9.0	172.6	54.6	111.2
Work in process	do	76.2	12.3	41.1	12.6	0.5	22.2	24.1	40.0
Materials, supplies, fuel, etc.	do	180.6	55.1	222.8	48.0	12.5	139.0	35.6	89.9
End of year	do	451.2	122.2	424.9	114.3	24.5	409.9	118.2	277.7
Finished products	do	172.5	47.2	149.1	44.1	12.5	226.5	57.0	123.5
Work in process	do	90.7	13.8	46.6	14.7	0.5	23.0	25.4	51.8
Materials, supplies, fuel, etc.	do	188.0	61.2	229.2	55.5	11.5	160.3	35.8	102.4
Capital expenditures for plant and equipment	do	104.5	25.7	105.1	20.6	12.6	200.7	17.0	58.2
New capital expenditures	do	98.7	22.9	93.4	15.3	10.9	199.1	15.9	51.1
New buildings and other structures	do	15.2	3.5	19.4	2.8	1.0	39.0	4.1	10.1
New machinery and equipment	do	83.5	19.4	74.0	12.5	9.9	160.1	11.8	41.0
Used capital expenditures	do	5.8	2.9	11.6	5.3	1.7	1.6	1.1	7.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Paper coating and glazing (SIC 2641)		Envelopes (SIC 2642)		Bags, except textile bags (SIC 2643)		Die-cut paper and board (SIC 2645)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	(4.4)	(A)	(1.2)	22	3.4	10	(1.9)	21
Response coverage ratio[2] (percent)	76	(X)	59	(X)	61	(X)	62	(X)
Machinery	(18.9)	(A)	(9.0)	26	(21.6)	52	(3.7)	15
Response coverage ratio[2] (percent)	81	(X)	61	(X)	63	(X)	69	(X)
Cost of purchased communication services	(10.8)	(A)	(4.4)	19	(12.7)	45	2.2	14
Response coverage ratio[2] (percent)	82	(X)	69	(X)	60	(X)	70	(X)
Rental payments	16.0	7	10.8	6	(29.0)	21	8.0	11
Buildings and other structures	(7.1)	15	7.7	7	(17.1)	17	5.2	4
Machinery and equipment	8.8	7	3.0	11	(11.9)	37	(2.8)	15
Supplemental labor costs	105.4	2	47.5	2	102.5	4	32.0	2
Legal costs	44.5	2	21.7	2	45.3	4	13.5	3
Voluntary costs	60.8	2	25.8	3	57.2	4	18.5	2
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	259.7	4	50.9	6	193.4	8	50.9	12
New capital expenditures	12.9	8	2.8	13	(22.9)	21	(3.8)	33
Used capital expenditures	4.4	12	-	(X)	(9.8)	39	(Z)	6
Retirements	2.2	13	1.3	7	(6.9)	15	(5.3)	47
End of year	274.8	4	52.4	6	214.2	8	49.4	10
Machinery and equipment:								
Beginning of year	742.8	2	228.7	3	692.2	3	127.6	5
New capital expenditures	79.9	3	20.4	18	91.5	9	13.8	14
Automobiles, trucks, etc., for highway use[3]	(0.8)	(A)	(0.4)	(A)	(1.3)	(A)	(0.4)	(A)
Computers and peripheral data processing equipment[3]	(0.3)	(A)	(0.1)	(A)	(2.2)	(A)	(0.1)	(A)
All other[3]	(70.9)	28	(17.3)	(A)	(66.9)	30	(8.1)	(A)
New machinery and equipment, n.s.k.[4]	(8.0)	(A)	(2.7)	(A)	(21.1)	(A)	(5.2)	(A)
Used capital expenditures	(1.7)	15	(4.5)	30	11.0	13	5.0	1
Retirements	15.1	4	9.9	3	21.8	7	(8.3)	18
End of year	809.3	2	243.7	3	712.8	3	138.1	5
Total gross value of depreciable assets:								
Beginning of year	1,002.5	2	279.6	3	885.6	3	178.4	6
New capital expenditures	92.9	3	23.2	12	114.4	10	(17.7)	17
Used capital expenditures	6.0	10	(4.5)	30	(15.8)	16	5.0	1
Retirements	17.3	5	11.2	3	28.8	8	(13.5)	26
End of year	1,084.1	2	296.0	3	987.0	3	187.6	5
Depreciation charges during 1977	70.4	4	18.3	3	66.1	2	11.2	11
Buildings and other structures	17.6	6	2.2	7	9.8	8	(2.5)	20
Machinery and equipment	52.8	4	16.2	3	56.3	3	8.7	9

See footnotes at end of table.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977—Con.

For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Pressed and molded pulp goods (SIC 2646)		Sanitary paper products (SIC 2647)		Stationery products (SIC 2648)		Converted paper products, n.e.c. (SIC 2649)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:								
Cost of purchased services for repair of--								
Buildings and other structures	0.2	1	3.6	5	(0.4)	25	(1.4)	29
Response coverage ratio[2] (percent)	59	(X)	63	(X)	59	(X)	73	(X)
Machinery	1.9	1	8.1	11	(2.9)	23	(7.4)	25
Response coverage ratio[2] (percent)	78	(X)	60	(X)	58	(X)	67	(X)
Cost of purchased communication services	0.8	1	3.7	7	(1.5)	55	(3.7)	24
Response coverage ratio[2] (percent)	97	(X)	65	(X)	60	(X)	68	(X)
Rental payments	0.7	1	17.1	2	6.7	10	18.4	10
Buildings and other structures	.5	1	10.0	2	(4.5)	15	9.7	14
Machinery and equipment	0.3	1	7.1	3	2.2	14	(8.7)	15
Supplemental labor costs	13.9	1	115.0	1	23.8	5	53.7	5
Legal costs	6.0	1	43.0	1	11.0	5	25.2	3
Voluntary costs	7.8	1	72.0	1	12.8	5	28.5	7
Gross value of depreciable assets:								
Buildings and other structures:								
Beginning of year	41.8	1	224.3	1	41.5	7	156.3	4
New capital expenditures	0.9	1	38.3	1	4.2	14	(12.7)	20
Used capital expenditures	-	(X)	0.3	1	(0.5)	85	(10.4)	81
Retirements	0.2	1	2.9	10	(0.3)	27	(9.0)	50
End of year	42.6	1	260.1	1	45.8	6	170.4	5
Machinery and equipment:								
Beginning of year	144.5	1	761.2	1	94.8	5	304.0	5
New capital expenditures	9.6	1	158.4	1	(9.2)	50	38.0	11
Automobiles, trucks, etc., for highway use[3]	(0.1)	(A)	0.2	(A)	(0.1)	(A)	(1.9)	(A)
Computers and peripheral data processing equipment[3]	(0.8)	(A)	0.6	(A)	(0.4)	(A)	(0.2)	(A)
All other[3]	(8.3)	(A)	154.5	13	(7.2)	(A)	(30.5)	66
New machinery and equipment, n.s.k.[4]	(0.3)	(A)	3.2	(A)	(1.4)	(A)	(5.6)	(A)
Used capital expenditures	1.6	1	1.2	1	(0.9)	48	(6.8)	55
Retirements	3.2	1	27.1	4	1.9	8	13.5	11
End of year	152.5	1	893.6	1	102.9	8	335.3	5
Total gross value of depreciable assets:								
Beginning of year	186.4	1	985.6	1	136.3	3	460.1	4
New capital expenditures	10.5	1	196.7	1	(13.4)	34	50.8	12
Used capital expenditures	1.6	1	1.5	1	(1.3)	43	(17.2)	53
Retirements	3.4	1	30.0	3	2.3	9	(22.4)	20
End of year	195.1	1	1,153.7	1	148.7	5	505.6	4
Depreciation charges during 1977	9.1	1	68.2	1	8.5	7	34.6	8
Buildings and other structures	1.4	1	11.6	3	1.8	10	8.5	14
Machinery and equipment	7.8	1	56.6	1	6.7	9	26.1	7

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2641, PAPER COATING AND GLAZING												
Total	-	**529**	**39.7**	**551.2**	**27.2**	**56.8**	**335.1**	**1 507.0**	**1 908.3**	**3 392.0**	**98.7**	**451.2**
Establishments with an average of—												
1 to 4 employees	E7	115	0.2	2.5	0.2	0.3	1.5	4.5	8.4	14.4	0.5	2.0
5 to 9 employees	E4	77	0.6	7.1	0.4	0.8	4.3	19.5	39.1	58.7	1.4	6.0
10 to 19 employees	E4	98	1.3	17.1	0.9	1.9	10.3	37.2	51.2	88.2	21.7	11.0
20 to 49 employees	-	85	2.7	34.7	2.0	4.1	21.4	83.4	122.9	204.9	6.0	22.7
50 to 99 employees	-	53	3.9	49.6	2.9	5.9	32.5	118.2	187.3	302.7	7.3	40.8
100 to 249 employees	-	61	9.0	123.8	6.7	14.1	82.6	298.8	487.1	781.0	15.6	104.8
250 to 499 employees	-	25	8.2	104.8	5.8	12.4	65.3	281.9	388.3	665.7	20.5	90.2
500 to 999 employees	-	11	7.4	111.8	4.9	10.1	70.2	307.0	366.3	664.3	15.4	105.3
1,000 to 2,499 employees	-	4	6.4	99.8	3.5	7.3	46.9	356.4	257.6	612.1	10.5	68.4
Covered by administrative records[2]	E0	192	1.1	15.1	0.8	1.6	9.1	31.1	45.1	76.2	2.4	10.5
INDUSTRY 2642, ENVELOPES												
Total	-	**265**	**22.6**	**270.0**	**17.6**	**34.6**	**182.4**	**503.4**	**493.4**	**990.5**	**22.9**	**122.2**
Establishments with an average of—												
1 to 4 employees	E6	45	0.1	0.9	0.1	0.1	0.6	1.6	2.0	3.9	0.1	0.5
5 to 9 employees	E8	12	0.1	0.9	0.1	0.1	0.6	2.1	2.0	4.0	0.1	0.5
10 to 19 employees	E7	24	0.4	4.1	0.3	0.5	2.8	7.3	7.8	15.1	0.7	1.8
20 to 49 employees	E1	48	1.6	18.3	1.2	2.3	11.8	40.8	38.1	78.3	1.8	8.5
50 to 99 employees	-	52	3.9	45.1	3.1	5.9	30.0	89.1	86.4	174.0	4.6	23.4
100 to 249 employees	-	62	9.5	116.2	7.3	14.4	79.6	214.6	212.5	424.3	8.5	51.6
250 to 499 employees	-	21	(7.1)	(84.5)	(5.6)	(11.1)	(56.9)	(147.9)	(144.7)	(291.0)	(7.1)	(35.9)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	65	0.5	5.4	0.4	0.7	3.6	10.2	10.1	20.3	0.6	2.4
INDUSTRY 2643, BAGS, EXCEPT TEXTILE BAGS												
Total	-	**596**	**48.7**	**584.1**	**38.8**	**77.6**	**411.7**	**1 349.6**	**2 140.5**	**3 482.3**	**93.4**	**424.9**
Establishments with an average of—												
1 to 4 employees	E8	101	0.2	2.2	0.2	0.3	1.5	4.1	8.1	13.5	0.3	1.5
5 to 9 employees	E7	60	0.4	4.9	0.3	0.6	3.5	12.3	19.0	31.3	0.7	3.6
10 to 19 employees	E6	80	1.1	12.9	0.9	1.7	8.6	33.7	55.7	89.1	5.1	9.3
20 to 49 employees	E1	116	3.8	41.6	2.9	5.8	27.0	103.5	177.3	278.4	8.8	29.8
50 to 99 employees	-	93	6.4	72.3	4.9	9.7	46.6	173.0	292.9	465.2	13.1	51.0
100 to 249 employees	-	98	15.7	185.7	12.6	25.3	134.2	401.9	670.3	1 068.4	24.8	127.6
250 to 499 employees	-	37	12.8	161.7	10.2	21.0	116.3	413.7	560.1	974.4	22.7	116.1
500 to 999 employees	-	9	(8.3)	(102.7)	(6.7)	(13.2)	(74.0)	(207.4)	(357.0)	(562.1)	(17.8)	(86.0)
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	179	1.2	14.3	1.0	1.8	9.9	33.2	49.6	82.8	2.1	9.6
INDUSTRY 2645, DIE-CUT PAPER AND BOARD												
Total	-	**371**	**14.3**	**174.6**	**11.3**	**22.7**	**119.6**	**429.5**	**640.9**	**1 057.7**	**15.3**	**114.3**
Establishments with an average of—												
1 to 4 employees	E8	104	0.2	2.6	0.2	0.3	1.7	5.3	8.4	13.9	0.4	1.3
5 to 9 employees	E7	62	0.4	5.4	0.3	0.6	3.4	10.8	17.2	27.9	0.7	2.6
10 to 19 employees	E3	64	0.9	11.1	0.7	1.3	7.1	25.3	34.2	59.3	1.4	5.9
20 to 49 employees	-	68	2.1	24.5	1.6	3.3	15.7	56.8	83.7	139.7	2.9	12.7
50 to 99 employees	E1	38	2.6	29.8	2.1	4.1	20.2	70.7	85.3	156.0	1.8	17.3
100 to 249 employees	-	26	4.1	48.0	3.3	6.6	34.1	139.3	214.3	348.7	2.8	36.4
250 to 499 employees	-	7	(4.0)	(53.2)	(3.1)	(6.3)	(37.5)	(121.4)	(197.9)	(312.2)	(5.3)	(38.1)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	147	0.7	8.7	0.6	1.1	5.6	16.1	25.3	41.4	1.2	3.8
INDUSTRY 2646, PRESSED AND MOLDED PULP GOODS												
Total	-	**38**	**4.9**	**58.8**	**4.0**	**8.4**	**48.7**	**153.7**	**90.1**	**240.3**	**10.9**	**24.5**
Establishments with an average of—												
1 to 4 employees	E8	5	(Z)	0.1	(Z)	(Z)	0.1	0.2	0.1	0.3	(Z)	(Z)
5 to 9 employees	E8	3	(Z)	0.2	(Z)	(Z)	0.2	0.4	0.3	0.7	(0.6)	0.1
10 to 19 employees	E6	3	(Z)	0.5	(Z)	0.1	0.4	1.0	0.9	1.8	(D)	0.2
20 to 49 employees	-	7	0.2	2.2	0.2	0.4	1.5	8.9	3.4	12.6	(D)	1.0
50 to 99 employees	-	6	0.4	4.0	0.3	0.7	3.2	9.3	6.7	15.7	0.3	1.4
100 to 249 employees	-	7	(4.2)	(51.7)	(3.4)	(7.3)	(43.3)	(133.9)	(78.7)	(209.1)	(10.0)	(21.7)
250 to 499 employees	-	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	7	(Z)	0.6	(Z)	0.1	0.5	1.2	0.9	2.1	0.1	0.2
INDUSTRY 2647, SANITARY PAPER PRODUCTS												
Total	-	**120**	**34.5**	**509.1**	**27.4**	**54.5**	**381.8**	**2 194.5**	**2 781.5**	**4 921.2**	**199.1**	**409.9**
Establishments with an average of—												
1 to 4 employees	E9	13	(Z)	0.3	(Z)	(Z)	0.2	0.6	1.6	2.8	0.1	0.2
5 to 9 employees	E6	6	(Z)	0.6	(Z)	0.1	0.4	2.1	2.9	5.1	0.1	0.4
10 to 19 employees	E8	12	0.2	2.2	0.1	0.3	1.6	7.3	9.8	17.1	0.3	1.2
20 to 49 employees	-	12	0.4	4.2	0.3	0.6	2.8	12.8	15.3	27.9	0.5	2.8
50 to 99 employees	-	10	0.7	9.3	0.6	1.2	5.8	47.9	49.4	96.0	1.5	7.0
100 to 249 employees	-	20	2.9	35.3	2.4	5.0	28.2	112.6	208.6	320.8	10.5	25.8
250 to 499 employees	-	26	9.3	130.1	7.8	15.5	102.9	568.4	711.3	1 259.0	40.2	112.6
500 to 999 employees	-	16	11.8	187.6	9.4	19.6	142.9	898.8	1 152.7	2 020.4	79.0	173.7
1,000 to 2,499 employees	-	5	9.1	139.5	6.7	12.1	96.0	543.9	629.9	1 172.2	66.9	86.2
Covered by administrative records[2]	E0	21	0.2	2.1	0.1	0.2	1.6	7.7	10.7	18.3	0.4	1.3

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1977—Con.

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2648, STATIONERY PRODUCTS												
Total	-	**242**	**12.6**	**135.2**	**9.8**	**18.5**	**91.0**	**291.0**	**364.4**	**651.7**	**15.9**	**118.2**
Establishments with an average of—												
1 to 4 employees	E8	78	0.1	1.5	0.1	0.2	1.0	3.6	4.5	8.3	0.2	1.4
5 to 9 employees	E5	31	0.2	2.1	0.2	0.3	1.5	4.5	4.8	9.2	0.2	1.5
10 to 19 employees	E3	24	0.3	3.1	0.3	0.5	2.1	7.5	7.8	15.1	0.2	1.9
20 to 49 employees	E1	45	1.5	15.2	1.1	2.0	8.9	31.5	41.8	73.2	1.3	9.6
50 to 99 employees	-	29	2.1	20.3	1.6	3.0	13.5	47.6	53.5	100.8	2.5	19.5
100 to 249 employees	-	23	3.8	39.6	3.0	5.6	26.5	98.8	111.0	197.5	4.6	41.2
250 to 499 employees	-	10	(4.7)	(53.4)	(3.7)	(6.9)	(37.4)	(107.6)	(141.0)	(247.6)	(7.0)	(43.1)
500 to 999 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	69	0.2	1.8	0.1	0.3	1.2	4.1	5.4	9.5	0.2	1.6
INDUSTRY 2649, CONVERTED PAPER PRODUCTS, N.E.C.												
Total	-	**833**	**29.4**	**325.1**	**21.9**	**43.3**	**201.1**	**834.3**	**887.3**	**1 697.5**	**51.1**	**277.7**
Establishments with an average of—												
1 to 4 employees	E4	272	0.4	4.6	0.4	0.6	3.1	11.7	11.4	23.2	1.7	3.1
5 to 9 employees	E4	128	0.9	9.1	0.7	1.3	5.9	21.5	25.7	47.1	2.2	6.8
10 to 19 employees	E2	141	1.9	20.1	1.4	2.8	13.1	49.0	52.0	101.1	3.5	13.4
20 to 49 employees	-	152	4.8	51.8	3.7	7.3	33.2	136.4	143.9	279.4	8.0	36.6
50 to 99 employees	-	79	5.5	59.3	4.2	8.3	37.3	162.3	193.9	352.0	10.8	47.7
100 to 249 employees	-	47	6.7	77.7	4.9	10.0	48.9	185.4	234.1	410.4	(25.0)	78.1
250 to 499 employees	E2	9	3.0	34.7	2.3	4.6	22.9	90.8	89.4	177.0	(D)	31.5
500 to 999 employees	-	3	(6.2)	(67.9)	(4.3)	(8.3)	(36.7)	(177.2)	(137.0)	(307.2)	(D)	(60.7)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	220	1.1	11.5	0.8	1.6	7.3	25.4	27.4	52.7	1.2	8.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2641	**Paper coating and glazing:**										
	Entire industry	529	39.7	551.2	27.2	56.8	335.1	1 507.0	1 908.3	3 392.0	98.7
	Establishments with 75 percent specialization or more	451	23.6	320.8	16.5	34.5	200.1	872.3	1 201.3	2 058.9	70.2
26411	Printing paper, coated at establishment not making paper:										
	Establishments with this product class primary	21	1.9	26.7	1.3	2.8	17.5	70.9	103.3	173.7	1.5
	Establishments with 75 percent specialization or more in class	15	1.1	17.5	0.9	1.9	12.6	51.6	75.2	126.8	0.9
26412	Oiled, waxed, and wax-laminated paper (plain or printed):										
	Establishments with this product class primary	25	3.4	45.8	2.6	5.1	32.4	99.9	154.7	251.5	5.5
	Establishments with 75 percent specialization or more in class	16	1.2	14.2	0.9	1.7	9.4	32.4	47.4	79.6	1.8
26413	Gummed products:										
	Establishments with this product class primary	22	2.2	30.0	1.6	3.4	19.5	62.8	109.9	172.8	3.6
	Establishments with 75 percent specialization or more in class	18	1.5	22.7	1.1	2.4	13.9	47.4	79.2	126.1	3.0
26414	Pressure sensitive tape:										
	Establishments with this product class primary	77	14.3	196.9	9.3	19.5	115.2	707.0	579.3	1 279.3	32.4
	Establishments with 75 percent specialization or more in class	64	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26417	Laminated and coated rolls and sheets for packaging, except waxed:										
	Establishments with this product class primary	85	10.0	134.7	7.5	15.5	89.7	300.6	575.8	868.4	24.2
	Establishments with 75 percent specialization or more in class	46	3.4	43.7	2.5	5.3	28.9	97.3	202.3	297.0	9.3
26418	Other coated processed paper, except packaging and waxed:										
	Establishments with this product class primary	40	5.8	88.0	3.4	7.3	43.0	207.5	305.8	507.1	7.5
	Establishments with 75 percent specialization or more in class	30	2.6	38.0	1.7	3.6	21.5	122.5	169.8	290.4	(D)
2642	**Envelopes:**										
	Entire industry	265	22.6	270.0	17.6	34.6	182.4	503.4	493.4	990.5	22.9
	Establishments with 75 percent specialization or more	253	22.0	264.6	17.2	33.8	178.7	493.2	482.0	968.7	21.9
2643	**Bags, except textile bags:**										
	Entire industry	596	48.7	584.1	38.8	77.6	411.7	1 349.6	2 140.5	3 482.3	93.4
	Establishments with 75 percent specialization or more	532	37.1	436.7	30.0	59.3	313.7	1 044.5	1 673.7	2 711.1	66.0
26431	Grocers' and variety paper bags, and shopping bags:										
	Establishments with this product class primary	56	8.8	113.5	7.3	14.0	85.7	260.8	570.0	829.8	12.5
	Establishments with 75 percent specialization or more in class	46	6.7	85.6	5.6	10.7	65.9	219.8	453.3	671.9	11.4
26432	Specialty bags and liners:										
	Establishments with this product class primary	221	26.0	305.2	20.1	41.0	203.4	748.6	1 003.6	1 748.7	60.1
	Establishments with 75 percent specialization or more in class	156	13.6	153.0	10.7	21.4	103.2	426.1	540.3	963.7	31.7
26433	Shipping sacks and multiwall bags:										
	Establishments with this product class primary	71	11.0	129.8	9.1	18.1	98.0	256.4	441.4	694.1	12.0
	Establishments with 75 percent specialization or more in class	59	8.2	96.7	6.8	13.8	73.7	191.0	332.4	520.4	(D)
2645	**Die-cut paper and board:**										
	Entire industry	371	14.3	174.6	11.3	22.7	119.6	429.5	640.9	1 057.7	15.3
	Establishments with 75 percent specialization or more	349	11.6	132.8	9.2	18.4	90.0	356.1	547.9	891.9	(D)
26451	Die-cut office supplies and miscellaneous products:										
	Establishments with this product class primary	134	10.3	123.5	8.1	16.3	84.7	243.7	302.9	543.0	9.6
	Establishments with 75 percent specialization or more in class	116	7.4	79.7	5.9	11.8	54.1	163.0	205.8	365.9	6.0
26452	Pasted, lined, laminated, or coated paperboard:										
	Establishments with this product class primary	29	1.7	24.6	1.4	2.9	17.4	130.3	274.7	396.0	1.1
	Establishments with 75 percent specialization or more in class	28	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2646	**Pressed and molded pulp goods:**										
	Entire industry	38	4.9	58.8	4.0	8.4	48.7	153.7	90.1	240.3	10.9
	Establishments with 75 percent specialization or more	38	4.9	58.8	4.0	8.4	48.7	153.7	90.1	240.3	10.9
26461	Bituminous fiber pipe:										
	Establishments with this product class primary	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Establishments with 75 percent specialization or more in class	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26462	Other molded pulp goods:										
	Establishments with this product class primary	22	4.5	55.3	3.7	7.8	46.0	144.6	84.7	226.0	10.6
	Establishments with 75 percent specialization or more in class	22	4.5	55.3	3.7	7.8	46.0	144.6	84.7	226.0	10.6
2647	**Sanitary paper products:**										
	Entire industry	120	34.5	509.1	27.4	54.5	381.8	2 194.5	2 781.5	4 921.2	199.1
	Establishments with 75 percent specialization or more	98	26.3	400.9	20.6	41.0	295.8	1 759.3	2 255.4	3 961.3	180.2
26471	Sanitary napkins and tampons:										
	Establishments with this product class primary	11	6.3	81.0	4.6	8.9	48.7	362.5	166.9	523.3	27.5
	Establishments with 75 percent specialization or more in class	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26472	Sanitary tissue health products:										
	Establishments with this product class primary	78	27.9	424.3	22.6	45.1	330.3	1 820.7	2 600.5	4 371.9	171.1
	Establishments with 75 percent specialization or more in class	62	20.5	314.6	16.2	32.1	237.7	1 366.7	1 968.1	3 290.5	155.0
2648	**Stationery products:**										
	Entire industry	242	12.6	135.2	9.8	18.5	91.0	291.0	364.4	651.7	15.9
	Establishments with 75 percent specialization or more	220	9.5	100.8	7.3	13.8	66.6	228.5	286.9	513.2	11.8
26481	Stationery:										
	Establishments with this product class primary	44	3.0	31.8	2.1	4.2	18.3	62.5	39.4	101.3	3.5
	Establishments with 75 percent specialization or more in class	34	1.7	16.7	1.2	2.3	9.4	32.0	22.6	54.0	(D)
26482	Tablets and related products:										
	Establishments with this product class primary	67	8.4	90.1	6.6	12.4	63.4	198.1	287.9	483.0	11.3
	Establishments with 75 percent specialization or more in class	51	4.4	48.7	3.3	6.4	31.6	111.2	162.1	271.1	5.8

See footnotes at end of table.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977—Con.

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2649	**Converted paper products, n.e.c.:**										
	Entire industry	833	29.4	325.1	21.9	43.3	201.1	834.3	887.3	1 697.5	51.1
	Establishments with 75 percent specialization or more	781	22.9	249.3	17.2	34.1	157.8	641.3	717.9	1 343.2	45.9
26492	Wrapping products (gift wrap, etc.):										
	Establishments with this product class primary	23	4.7	47.0	3.5	6.8	29.5	150.8	120.2	264.1	8.5
	Establishments with 75 percent specialization or more in class	13	1.7	16.3	1.3	2.5	10.2	52.2	28.2	78.9	(D)
26493	Wallcoverings:										
	Establishments with this product class primary	50	4.2	52.8	3.2	6.5	35.6	122.8	150.4	265.7	6.0
	Establishments with 75 percent specialization or more in class	48	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26495	Other converted paper and board products:										
	Establishments with this product class primary	265	15.6	174.8	11.5	22.5	102.6	441.8	498.3	931.4	26.4
	Establishments with 75 percent specialization or more in class	233	10.4	113.7	7.9	15.6	70.9	298.5	376.4	670.1	22.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis—Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2641	Paper coating and glazing	1977.. 3,392.0	2,629.4	670.6	92.0	80	3,037.3	2,629.4	407.9	87
		1972.. 1,954.0	1,426.1	442.2	85.7	76	1,650.5	1,426.1	224.4	86
		1967.. 1,566.5	1,183.8	318.7	64.0	79	1,354.6	1,183.8	170.8	87
2642	Envelopes	1977.. 990.5	912.1	26.6	51.7	97	980.6	912.1	68.5	93
		1972.. 620.8	558.7	24.6	37.5	96	587.9	558.7	29.2	95
		1967.. 470.3	425.1	20.2	25.0	95	443.4	425.1	18.3	96
2643	Bags, except textile bags	1977.. 3,482.3	2,981.0	419.9	81.4	88	3,304.1	2,981.0	323.1	90
		1972.. 1,885.7	1,617.4	218.9	49.4	88	1,829.4	1,617.4	212.0	88
		1967.. 1,375.6	1,131.2	186.5	57.9	86	1,292.7	1,131.2	161.5	88
2645	Die-cut paper and board	1977.. 1,057.7	871.6	118.0	68.1	88	1,034.3	871.6	162.7	84
		1972.. 676.3	572.5	71.5	32.3	89	645.9	572.5	73.4	89
		1967.. 577.5	470.8	75.8	30.9	86	547.6	470.8	76.8	86
2646	Pressed and molded pulp goods	1977.. 240.3	236.3	3.6	.4	98	239.6	236.3	3.3	99
		1972.. 162.8	156.9	3.4	2.5	98	161.6	156.9	4.7	97
		1967.. 145.9	(D)	(D)	1.9	[1]95	142.7	(D)	(D)	[1]95
2647	Sanitary paper products	1977.. 4,921.2	4,502.3	343.5	75.4	93	4,562.6	4,502.3	60.3	99
		1972.. 2,071.8	1,915.7	111.0	45.1	95	1,981.9	1,915.7	66.2	97
		1967.. 1,293.4	1,184.3	77.2	31.9	94	1,234.4	1,184.3	50.1	96
2648	Stationery products	1977.. 651.7	502.6	81.1	68.0	86	630.5	502.6	127.9	80
		1972.. 450.5	344.1	63.0	43.4	85	421.5	344.1	77.4	82
		1967.. (NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2649	Converted paper products, n.e.c.	1977.. 1,697.5	1,413.8	195.4	88.3	88	1,748.8	1,413.8	335.0	81
		1972.. 630.6	490.0	101.2	39.4	83	661.8	490.0	171.8	74
		1967.. (NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified.

[1]Minimum percentage. Exact percentage not shown to avoid disclosing operations of individual companies.

Table 5c. Industry-Product Analysis—Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Paper coating and glazing (SIC 2641)	Envelopes (SIC 2642)	Bags, except textile bags (SIC 2643)	Die-cut paper and board (SIC 2645)	Pressed and molded pulp goods (SIC 2646)	Sanitary paper products (SIC 2647)	Stationery products (SIC 2648)	Converted paper products, n.e.c. (SIC 2649)	Other industries
	Total	(X)	3,392.0	990.5	3,482.3	1,057.7	240.3	4,921.2	651.7	1,697.5	(X)
	Primary products	(X)	2,629.4	912.1	2,981.0	871.6	236.3	4,502.3	502.6	1,413.8	(X)
	Secondary products	(X)	670.6	26.6	419.9	118.0	3.6	343.5	81.1	195.4	(X)
	Miscellaneous receipts	(X)	92.0	51.7	81.4	68.1	.4	75.4	68.0	88.3	(X)
2641-	Coated and glazed paper	3,037.3	2,629.4	-	94.1	(D)	-	(D)	-	24.4	273.4
26411	Printing paper, coated at establishment not making paper	172.0	153.0	-	(D)	-	-	-	-	(D)	(D)
26412	Oiled, waxed, wax-laminated paper (plain or printed)	230.6	196.8	-	(D)	-	-	(D)	-	-	8.1
26413	Gummed products	187.6	172.6	-	(D)	-	-	(D)	-	(D)	(D)
26414	Pressure sensitive tape	1,177.7	1,012.1	-	.6	(D)	-	-	-	(D)	152.4
26417	Laminated and coated rolls and sheets for packaging, except waxed	716.9	584.2	-	67.2	-	-	(D)	-	(D)	64.0
26418	Other coated processed paper, except packaging and waxed	421.1	381.4	-	(D)	-	-	-	-	(D)	38.4
26410	Coated and glazed paper, n.s.k	131.3	129.3	-	(D)	-	-	-	-	-	(D)
26420	Envelopes, except stationery	980.6	-	912.1	-	(D)	-	-	(D)	(D)	39.1
2643-	Bags, except textile bags	3,304.1	129.7	-	2,981.0	(D)	-	(D)	(D)	(D)	127.6
26431	Grocers' and variety paper bags, and shopping bags	801.6	(D)	-	741.9	-	-	(D)	-	(D)	(D)
26432	Specialty bags and liners	1,615.7	124.7	-	1,383.7	(D)	-	(D)	(D)	(D)	96.8
26433	Shipping sacks and multiwall bags	672.6	(D)	-	642.4	-	-	(D)	-	-	(D)
26430	Bags, except textile, n.s.k	214.3	(D)	-	213.0	-	-	-	-	(D)	.3
2645-	Die-cut paper and board	1,034.3	(D)	7.5	(D)	871.6	-	-	(D)	(D)	136.8
26451	Die-cut office supplies and miscellaneous products	484.9	(D)	7.5	-	395.4	-	-	(D)	(D)	74.7
26452	Pasted, lined, laminated, or coated paperboard	438.4	(D)	-	(D)	367.9	-	-	-	(D)	(D)
26450	Die-cut paper and board, n.s.k	111.0	-	-	-	108.3	-	-	-	(D)	(D)
2646-	Pressed and molded pulp goods	239.6	-	-	-	-	236.3	-	-	-	3.3
26461	Bituminous fiber pipe	(D)	-	-	-	-	(D)	-	-	-	(D)
26462	Other molded pulp goods	225.9	-	-	-	-	(D)	-	-	-	(D)
26460	Pressed and molded pulp goods, n.s.k	(D)	-	-	-	-	(D)	-	-	-	(D)
2647-	Sanitary paper products	4,562.6	-	-	(D)	-	-	4,502.3	-	(D)	53.4
26471	Sanitary napkins and tampons	588.7	-	-	-	-	-	(D)	-	-	(D)
26472	Sanitary tissue health products	3,948.3	-	-	(D)	-	-	3,917.7	-	(D)	23.6
26470	Sanitary paper products, n.s.k	25.6	-	-	-	-	(D)	(D)	-	-	(D)
2648-	Stationery products	630.5	-	(D)	-	(D)	-	(D)	502.6	1.7	93.0
26481	Stationery	141.2	-	3.3	-	(D)	-	(D)	(D)	(D)	50.9
26482	Tablets and related products	425.5	-	(D)	-	(D)	-	-	354.4	(D)	(D)
26480	Stationery products, n.s.k	63.8	-	-	-	-	-	-	(D)	-	(D)
2649-	Converted paper products, n.e.c	1,748.8	42.7	(D)	17.5	(D)	-	20.6	9.9	1,413.8	243.6
26492	Wrapping products (gift wrap, etc.)	251.5	(D)	-	13.6	-	-	-	(D)	172.6	59.2
26493	Wallcoverings	306.5	(D)	-	-	-	-	-	-	249.5	(D)
26495	Other converted paper and board products	948.1	(D)	(D)	(D)	-	-	(D)	(D)	751.4	125.8
26490	Converted paper products, n.e.c., n.s.k	242.7	(D)	-	(D)	(D)	-	(D)	-	240.3	(D)
	Other shipments by 4-digit product group:										
2295-	Coated fabrics, not rubberized	(X)	(D)	-	-	-	-	-	-	(D)	(X)
2297-	Nonwoven fabrics	(X)	(D)	-	-	-	-	(D)	-	(D)	(X)
2393-	Textile bags	(X)	(D)	-	(D)	-	-	-	-	(D)	(X)
2399-	Fabricated textile products, n.e.c	(X)	-	-	-	-	-	(D)	-	(D)	(X)
2499-	Wood products, n.e.c	(X)	-	-	-	(D)	-	-	-	(D)	(X)
2522-	Metal office furniture	(X)	-	-	-	(D)	-	-	-	-	(X)
2621-	Paper mill products, except building paper	(X)	(D)	-	(D)	(D)	-	(D)	-	(D)	(X)
2651-	Folding paperboard boxes	(X)	(D)	-	(D)	-	-	-	-	(D)	(X)
2652-	Setup paperboard boxes	(X)	-	-	-	(D)	-	-	(D)	-	(X)
2654-	Sanitary food containers	(X)	-	(D)	-	-	-	13.1	-	(D)	(X)
2655-	Fiber cans, drums, and similar products	(X)	(D)	-	-	-	-	-	-	-	(X)
2751-	Commercial printing, letterpress	(X)	40.4	10.1	(D)	(D)	-	(D)	(D)	(D)	(X)
2752-	Commercial printing, lithographic	(X)	(D)	(D)	(D)	(D)	-	-	(D)	-	(X)
2753-	Engraving and plate printing	(X)	(D)	-	-	-	-	-	(D)	-	(X)
2754-	Commercial printing, gravure	(X)	(D)	-	(D)	-	-	-	-	(D)	(X)

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977 — Con.

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Paper coating and glazing (SIC 2641)	Envelopes (SIC 2642)	Bags, except textile bags (SIC 2643)	Die-cut paper and board (SIC 2645)	Pressed and molded pulp goods (SIC 2646)	Sanitary paper products (SIC 2647)	Stationery products (SIC 2648)	Converted paper products, n.e.c. (SIC 2649)	Other industries
	Other shipments by 4-digit product group--Con.										
2761-	Manifold business forms	(X)	(D)	(D)	-	(D)	-	-	-	-	(X)
2771-	Greeting card publishing	(X)	-	-	-	-	-	-	(D)	(D)	(X)
2782-	Blankbooks and looseleaf binders	(X)	(D)	-	-	(D)	-	-	30.2	(D)	(X)
2842-	Polishes and sanitation goods	(X)	-	-	-	-	-	(D)	-	-	(X)
2891-	Adhesives and sealants	(D)	(D)	-	(D)	-	-	-	-	-	(X)
3069-	Fabricated rubber products, n.e.c.	(X)	(D)	-	-	-	-	(D)	-	6.8	(X)
3079-	Miscellaneous plastics products	(X)	(D)	-	190.9	(D)	(D)	(D)	-	25.0	(X)
3497-	Metal foil and leaf	(X)	104.2	-	7.0	(D)	-	-	(D)	15.4	(X)
3554-	Paper industries machinery	(X)	-	-	-	(D)	-	-	-	(D)	(X)
3559-	Special industry machinery, n.e.c.	(X)	-	-	-	-	-	-	-	(D)	(X)
3569-	General industrial machinery, n.e.c.	(X)	-	-	(D)	-	-	-	-	(D)	(X)
3573-	Electronic computing equipment	(X)	(D)	-	-	-	-	-	-	-	(X)
3579- 3572-	Office machines, n.e.c. and typewriters	(X)	(D)	-	-	(D)	-	-	-	-	(X)
3679-	Electronic components, n.e.c.	(X)	(D)	-	-	(D)	-	-	-	-	(X)
3714-	Motor vehicle parts and accessories	(X)	-	-	-	(D)	-	-	-	-	(X)
3841-	Surgical and medical instruments	(X)	-	-	-	(D)	-	-	-	-	(X)
3842-	Surgical appliances and supplies	(X)	10.8	-	(D)	-	-	(D)	-	-	(X)
3861-	Photographic equipment and supplies	(X)	71.2	-	-	(D)	-	-	-	(D)	(X)
3951-	Pens and mechanical pencils	(X)	-	-	-	-	-	-	(D)	(D)	(X)
3953-	Marking devices	(X)	(D)	-	-	-	-	-	-	(D)	(X)
3955-	Carbon paper and inked ribbons	(X)	-	-	-	(D)	-	-	-	(D)	(X)
3964-	Needles, pins, and fasteners	(X)	(D)	-	-	-	-	-	-	(D)	(X)
3999-	Manufacturing industries, n.e.c.	(X)	(D)	-	-	-	-	-	-	(D)	(X)
	Miscellaneous receipts:										
93000 00	Contract work	(X)	7.4	5.3	1.6	12.7	-	1.5	2.2	4.8	(X)
99980 13	Sales of scrap and refuse	(X)	4.2	16.8	6.3	1.9	(D)	10.5	2.4	1.2	(X)
99980 41	Receipts for research and developmental work	(X)	-	(D)	-	-	-	-	-	-	(X)
99980 98	Other miscellaneous receipts	(X)	7.2	(D)	5.4	.2	(D)	.3	.3	4.7	(X)
99989 00	Resales	(X)	73.2	27.2	68.1	53.3	.2	63.1	63.0	77.5	(X)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2641-	2295 Coated fabrics, not rubberized	(D)
	2297 Nonwoven fabrics	(D)
	2396 Automotive and apparel trimmings	(D)
	2621 Paper mills, except building paper	(D)
	2751 Commercial printing, letterpress	25.9
	2754 Commercial printing, gravure	(D)
	3079 Miscellaneous plastics products	(D)
	3291 Abrasive products	(D)
	3497 Metal foil and leaf	24.0
	3679 Electronic components, n.e.c.	(D)
	3953 Marking devices	(D)
2642-	2654 Sanitary food containers	(D)
	2752 Commercial printing, lithographic	15.4
2643-	2393 Textile bags	20.0
	2653 Corrugated and solid fiber boxes	(D)
	2751 Commercial printing, letterpress	(D)
	2911 Petroleum refining	(D)
	3079 Miscellaneous plastics products	(D)
	3497 Metal foil and leaf	11.8

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products--Con.	
2645-	2396 Automotive and apparel trimmings	7.2
	2522 Metal office furniture	(D)
	2621 Paper mills, except building paper	(D)
	2631 Paperboard mills	(D)
	2761 Manifold business forms	25.0
	2782 Blankbooks and looseleaf binders	6.8
2647-	3842 Surgical appliances and supplies	(D)
2648-	2771 Greeting card publishing	44.1
	2782 Blankbooks and looseleaf binders	34.1
2649-	2295 Coated fabrics, not rubberized	(D)
	2651 Folding paperboard boxes	(D)
	2654 Sanitary food containers	(D)
	2761 Manifold business forms	6.8
	2771 Greeting card publishing	68.6
	3079 Miscellaneous plastics products	(D)
	3497 Metal foil and leaf	(D)
	3579 Office machines, n.e.c.	(D)
	3861 Photographic equipment and supplies	(D)
	3955 Carbon paper and inked ribbons	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	PAPER COATING AND GLAZING						
2641- --	Total	.....	(NA)	(X)	3,037.3	(X)	1,650.5
26411 --	Printing paper coated at establishments other than where paper was produced	.....	(NA)	(X)	172.0	(X)	111.8
26411 13	Coated one side (for labels and similar uses)	1,000 s. tons. of paper and board consumed	26	**86.2	95.9	181.2	80.4
26411 53	Coated two sides (for printing of magazines, directories, catalogs, and similar uses)	1,000 s. tons. of paper and board consumed	10	**79.4	66.4	43.2	27.3
26411 00	Printing paper coated at establishments other than where paper was produced, n.s.k	.....	(NA)	(X)	9.7	(X)	4.1
26412 --	Oiled, waxed, and wax-laminated paper, plain or printed	.....	(NA)	(X)	230.6	(X)	153.2
26412 11	Oiled and similarly treated paper	1,000 s. tons. of paper and board consumed	7	(S)	9.8	41.1	18.8
26412 15	Waxed and wax-laminated paper for nonpackaging uses	↑	9	43.2	47.4	[3]68.1	[3]39.0
	Waxed and wax-laminated for packaging uses:[4]						
	Nonfood products:						
26412 22	Single web		14	**15.3	13.6		
26412 27	Multiweb		4	11.9	11.2		
	Food products:					(NA)	[5]84.8
26412 32	Single web		26	115.6	119.6		
26412 37	Multiweb	1,000 s. tons. of paper and board consumed	10	*17.0	16.2		
26412 00	Oiled, waxed, and wax-laminated paper, plain or printed, n.s.k	.....	(NA)	(X)	12.8	(X)	10.6
26413 --	Gummed products	.....	(NA)	(X)	187.6	(X)	139.2
26413 12	Gummed sealing tape, paper base and reinforced base, used for sealing and securing	1,000 s. tons. of paper and board consumed	22	*134.8	112.6	183.9	85.6
26413 14	Corrugators' box gummed tape used on manufacturers' joints of corrugated boxes	↑	12	(S)	24.6	31.3	16.6
26413 31	Gummed flat paper, including stock labels, unprinted	1,000 s. tons. of paper and board consumed	16	(S)	50.1	42.1	34.0
26413 00	Gummed products, n.s.k	.....	(NA)	(X)	.3	(X)	3.0
26414 --	Pressure sensitive tape	.....	(NA)	(X)	1,177.7	(X)	574.5
	Pressure sensitive products (self-adhesive):						
	Single faced tape:						
26414 13	Paper backing, excluding electrical	Mil. sq. yd.	25	(S)	278.5	(S)	(S)
26414 33	Cloth backing, excluding electrical and surgical adhesive	Mil. sq. yd.	14	61.6	59.0	(S)	(S)
26414 41	Plastic backing, excluding electrical; including cellophane, anti-corrosive, and other transparent materials	1,000 s. tons.	20	(S)	256.0	(S)	136.0
26414 43	Plastic backing, electrical	↑	5	(D)	(D)	(S)	(S)
26414 47	Other backing, electrical		5	(S)	42.9	(S)	(S)
26414 53	Reinforced and laminated tape, all backings		12	(S)	87.0	(S)	37.0
26414 59	Other backings, excluding rubber		10	(S)	(D)	(S)	6.6
26414 61	Double faced tape	1,000 s. tons.	13	(S)	55.2	(S)	(S)
26414 75	Pressure sensitive labels, unprinted	Bil. sq. in.	39	(S)	110.8	(S)	15.2
26414 81	Pressure sensitive base stock for labels	↑	18	*547.9	185.1	(S)	46.7
26414 85	Pressure sensitive base stock for other than labels	Bil. sq. in.	11	(S)	37.4	(S)	17.3
26414 00	Pressure sensitive tape, n.s.k	.....	(NA)	(X)	17.9	(X)	13.5
26417 --	Laminated or coated rolls and sheets, for packaging uses, except waxed[4]	.....	(NA)	(X)	716.9	(X)	356.9
	Paper, waterproof (plain, reinforced, creped, or lined):						
26417 13	Single web	1,000 s. tons.	10	45.5	35.0	65.4	31.1
26417 15	Multiweb	↑	3	(D)	(D)	97.7	23.4
	Paper, moistureproof and vapor barrier:						
26417 43	Single web		9	29.3	48.8	93.4	45.9
26417 45	Multiweb		6	(D)	(D)	22.8	13.5
	Laminated and coated film, excluding polyethylene and foil:						
26417 51	Single web		17	(S)	26.3	(S)	25.4
26417 53	Multiweb		19	(S)	63.5	(S)	17.3
	Laminated and coated paper, excluding polyethylene and foil:						
26417 55	Single web		12	42.6	59.8	(S)	12.7
26417 57	Multiweb	1,000 s. tons.	7	**91.4	67.0	(S)	30.2

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** — Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)
	PAPER COATING AND GLAZING--Con.						
26417 --	Laminated or coated rolls and sheets, for packaging uses, except waxed--Con.						
26417 61	Polyethylene coated paper	1,000 s. tons	17	**69.1	83.4	66.0	46.7
	Polyethylene laminated or coated to materials other than foil:						
26417 73	Single web		18	84.5	93.0	(S)	51.7
26417 75	Multiweb	1,000 s. tons	26	(S)	131.9	**65.0	43.2
26417 00	Laminated or coated rolls and sheets, for packaging uses, except waxed, n.s.k.		(NA)	(X)	84.8	(X)	15.8
26418 --	Other coated and processed paper, except for packaging uses and except waxed		(NA)	(X)	421.1	(X)	263.6
26418 11	Casein and similarly coated paper	1,000 s. tons of paper and board consumed	6	(D)	(D)	(D)	(D)
26418 21	Special coated paper (mica, pyroxylin, lacquer, metallic, etc.), other than foil		7	(D)	(D)	35.6	32.0
26418 45	Processed paper (embossed, leatherette, etc.)		11	**51.4	44.4	17.1	13.9
26418 98	Other coated and processed paper, including soap impregnated paper and plastic coated paper	1,000 s. tons of paper and board consumed	36	(S)	196.5	168.0	132.1
26418 00	Other coated and processed paper, except for packaging uses and except waxed, n.s.k.		(NA)	(X)	4.1	(X)	(D)
26410 00	Paper coating and glazing, n.s.k., typically for establishments with 10 employees or more (see note)		(NA)	(X)	55.1	(X)	39.0
26410 02	Paper coating and glazing, n.s.k., typically for establishments with less than 10 employees (see note)		(NA)	(X)	76.2	(X)	12.3
	ENVELOPES						
2642- --	Total	Millions	213	*99,578.5	980.6	*96,599.4	587.9
26420 --	Envelopes, all types and materials, excluding stationery envelopes:						
26420 21	Envelopes, all types and materials, excluding stationery envelopes	Millions	213	*99,578.5	980.6	*96.599.4	587.9
	BAGS, EXCEPT TEXTILE BAGS						
2643- --	Total		(NA)	(X)	3,304.1	(X)	1,829.4
26431 --	Grocers' and variety bags (paper) and wardrobe, shopping, and other bags		(NA)	(X)	801.6	(X)	493.1
26431 13	Grocers' bags and sacks, paper	1,000 s. tons	24	1,699.0	612.6	1,912.2	445.3
26431 15	Variety bags (merchandise), paper		18	255.1	139.7		
26431 51	Shopping bags, all materials		9	42.0	33.2	49.3	25.0
26431 98	Other paper bags, n.e.c. (mothproof, etc.), excluding specialty bags	1,000 s. tons	9	*21.9	12.3	58.9	21.9
26431 00	Grocers' and variety bags (paper) and wardrobe, shopping, and other bags, n.s.k.		(NA)	(X)	3.9	(X)	.9
26432 --	Specialty bags and liners		(NA)	(X)	1,615.7	(X)	819.5
	Paper and paper combinations, except polyethylene:						
	Kraft or sulphite paper, single, or in combinations with other paper or films, except polyethylene:						
26432 13	Single web	1,000 s. tons	44	(S)	163.5	176.9	112.2
26432 15	Multiweb		23	*81.5	59.4	52.4	30.1
	Glassine, greaseproof, and parchment, laminated or unlaminated:						
26432 23	Single web		17	*20.2	28.4	19.6	12.2
26432 25	Multiweb		6	11.3	16.9	17.0	7.1
	Polyethylene combinations, including polyethylene and foil combinations:						
	Polyethylene combined with other films by lamination or coating:						
26432 33	Single web		33	**113.3	132.7	49.4	38.7
26432 35	Multiweb		15	(S)	94.8	15.6	17.0
26432 40	Polyethylene combined by lamination or by coating to paper, to foil, or to foil combinations	1,000 s. tons	16	*8.4	21.0	20.3	15.6
	Unsupported film:						
26432 50	Cellophane	Million lb	18	13.2	17.9	(S)	63.4
26432 60	Polyethylene		102	*955.1	639.1	(S)	383.2
26432 70	Other unsupported film (pliofilm, acetate, etc.)	Million lb	19	35.9	31.8	[6]30.2	23.7

See footnotes at end of table.

Table 6a. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1977 and 1972—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	BAGS, EXCEPT TEXTILE BAGS--Con.						
	Specialty bags and liners--Con.						
26432 80	Foil and foil combinations and laminations, except polyethylene	Million lb.	7	1.8	6.2	(S)	6.4
	Resale household bags, all materials (garbage, lunch, sandwich, etc.):						
26432 93	Paper	1,000 s. tons.	6	(S)	18.7	40.1	16.0
26432 95	Film	Million lb.	19	*290.8	220.1	(S)	(S)
26432 00	Specialty bags and liners, n.s.k.	.....	(NA)	(X)	165.3	(X)	(S)
26433 --	Shipping sacks and multiwall bags, all materials, except textile	.....	(NA)	(X)	672.6	1,119.6	428.5
26433 11	Single and double wall	1,000 s. tons.	29	*128.8	96.5	313.0	108.1
26433 51	Multiwall (three or more plies)	1,000 s. tons.	33	868.8	562.3	806.6	320.4
26433 00	Shipping sacks and multiwall bags, n.s.k.	.....	(NA)	(X)	13.9	(X)	-
26430 00	Bags, except textile bags, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	131.5	(X)	67.0
26430 02	Bags, except textile bags, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	82.8	(X)	21.3
	DIE-CUT PAPER AND BOARD						
2645- --	Total	.....	(NA)	(X)	1,034.3	(X)	645.9
26451 --	Die-cut office supplies (filing accessories) and miscellaneous products	.....	(NA)	(X)	484.9	(X)	342.9
	Filing accessories:						
26451 11	Index cards	1,000 s. tons of paper and board consumed	20	*14.1	18.3	[7]22.6	12.7
26451 12	Expanding file folders, including wallets		14	30.8	36.1	[7]76.3	57.6
26451 14	Other file folders, including hanging folders		30	**81.1	79.8		
26451 15	Guide cards, including guides for file folders		15	**16.3	17.8	[7]14.1	12.5
26451 21	Other die-cut paper and cardboard office supplies, including binders and covers, except looseleaf		23	**30.6	47.6	[7]52.6	47.4
	Single-cut tabulating cards		(NA)	170.6	135.3	[7]315.8	128.6
26451 53	3-1/4" x 7-3/8", unprinted or printed on one side in any one color ink on any color stock		19	*152.6	108.4	260.9	97.0
26451 56	3-1/4" x 7-3/8", printed in more than one color of ink or printed front and back on any color stock		8	(D)	(D)	(D)	(D)
26451 58	Less than 3-1/4" x 7-3/8", printed in one or more colors of ink on any color stock		7	**2.9	2.6	7.0	3.4
26451 59	Other single-cut tabulating cards, excluding continuous		2	(D)	(D)	(D)	(D)
26451 61	Cards, die-cut and designed, not printed		18	**32.3	31.4	(S)	2.8
26451 71	Automotive board products (panel, trim, etc.)		8	**29.3	27.1	[6]50.4	22.2
26451 81	Bottle caps, closures, and lids		3	(D)	(D)	44.3	11.5
26451 98	Other, including fillers and flats for egg cases, except molded pulp, excluding labels	1,000 s. tons of paper and board consumed	30	**71.7	38.0	[7]47.1	17.5
26451 00	Die-cut office supplies (filing accessories) and miscellaneous products, n.s.k.	.....	(NA)	(X)	43.8	(X)	30.1
26452 --	Pasted, lined, laminated, or surface-coated paperboard:						
26452 11	Pasted, lined, laminated, or surface-coated paperboard	1,000 s. tons of paper and board consumed	53	947.9	438.4	[7]1,093.5	271.3
26450 00	Die-cut paper and board, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	69.6	(X)	23.7
26450 02	Die-cut paper and board, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	41.4	(X)	8.0
	PRESSED AND MOLDED PULP GOODS						
2646- --	Total	.....	(NA)	(X)	239.6	(X)	161.6
26461 --	Bituminous fiber pipe, sewer and drainage, conduit and fittings (molded pulp or papier-mache)	.....	(NA)	(X)	(D)	(X)	21.3
26461 07	Quantity of wood pulp and waste paper consumed	1,000 s. tons.	-	(D)	(X)	34.8	(X)
26461 08	Quantity and value of shipments and transfers	1,000 run. ft.	3	(D)	(D)	110.6	21.3

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972**—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	PRESSED AND MOLDED PULP GOODS--Con.						
26462 --	Other molded pulp goods	.....	(NA)	(X)	225.9	(X)	136.3
26462 12	Egg cartons (quantity of wood pulp and waste paper consumed)	1,000 s. tons.	3	(D)	(D)	(D)	(D)
26462 31	Prepackaging trays and boards, for meats and produce, and other food trays (quantity of wood pulp and waste paper consumed)	1,000 s. tons.	5	(D)	(D)	(D)	(D)
26462 51	Molded pulp plates and dishes (quantity of wood pulp and waste paper consumed)	1,000 s. tons.	2	(D)	(D)	69.8	37.7
26462 98	Other molded pulp and papier-mache articles, excluding statuary and art goods	.....	10	(X)	(D)	(X)	34.3
26462 00	Other molded pulp goods, n.s.k.	.....	-	(X)	-	(X)	-
26460 00	Pressed and molded pulp goods, n.s.k., typically for establishments with 10 employees or more (see note)	.....	-	(X)	(D)	(X)	3.4
26460 02	Pressed and molded pulp goods, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	2.1	(X)	.6
	SANITARY PAPER PRODUCTS						
2647- --	Total	.....	(NA)	(X)	4,562.3	(X)	1,981.9
26471 --	Sanitary napkins and tampons	.....	(NA)	(X)	588.7	(X)	281.1
	Sanitary napkins:						
26471 12	Beltless mini pads	1,000 gross doz.	2	([8])	([8])	(S)	173.1
26471 13	All other sanitary napkins, including standard size and maternity pads	1,000 gross doz.	4				
26471 15	Wood pulp and paper consumed in manufacture of sanitary napkins	1,000 s. tons.	(X)	(D)	(X)	(S)	(X)
26471 51	Tampons	1,000 gross doz.	7	[8](S)	[8]588.7	(S)	107.5
26471 55	Wood pulp and paper consumed in manufacture of tampons	1,000 s. tons.	(X)	(D)	(X)	(D)	(X)
26471 00	Sanitary napkins and tampons, n.s.k.	.....	(X)	(X)	-	(X)	.5
26472 --	Sanitary tissue health products[9]	.....	(NA)	(X)	3,948.0	(X)	1,692.7
26472 11	Facial tissues and handkerchiefs, including sputum wipes	1,000 s. tons of paper and board consumed	15	315.1	358.4	(S)	(S)
	Table napkins, including plain creped, and facial tissue:						
	Industrial (bulk and dispenser type):						
	Regular type, single ply:						
26472 25	Bulk		9	63.3	57.7	[7]62.4	32.1
26472 27	Dispenser		7	101.4	88.7	80.9	36.2
26472 33	Facial tissue type, 2 ply or more		8	49.6	57.8	40.7	25.9
	Retail packages (resale):						
26472 35	Regular type, single ply		13	145.2	140.2	128.9	71.8
26472 37	Facial tissue type, 2 ply or more		19	74.9	98.0	[6]70.8	49.2
	Toilet tissue:						
	Rolls and ovals:						
	Industrial:						
26472 41	Facial tissue type, 2 ply or more		10	98.4	78.9	[7]61.8	25.4
26472 43	Regular type, single ply		12	105.7	77.4	128.8	45.6
	Retail packages (resale):						
26472 45	Facial tissue type, 2 ply or more		18	523.7	465.2	365.3	168.7
26472 47	Regular type, single ply		13	644.2	568.1	555.1	228.9
26472 55	Interfolded and flat package		5	*24.0	17.0	[6]21.0	8.3
	Towels (rolled, folded, or interfolded):						
26472 71	Industrial		11	445.6	276.5	457.0	156.3
	Retail packages (resale):						
26472 76	Single ply		6	203.1	179.3	699.6	360.5
26472 77	2 ply or more		13	552.6	549.4		
26472 81	Wipers (windshield, industrial, and lithographic plate)		8	56.1	56.1	53.4	25.1
26472 85	Absorbent pads	1,000 s. tons of paper and board consumed	3	([10])	([10])	51.3	15.0
	Disposable diapers, except diaper liners:						
26472 87	Paper (usually contains pulp or cellulose fibers)	1,000 dozen	7	867,614.0	839.9	(D)	(D)
26472 88	Wood pulp and paper consumed in manufacture of diapers	1,000 s. tons.	(NA)	549.3	(X)	(X)	(X)
26472 98	Other sanitary health products, including toilet seat covers, bibs, headrests, tray covers, etc.	1,000 s. tons of paper and board consumed	11	(S)	[10]26.0	32.5	23.9
26472 00	Sanitary tissue health products, n.s.k.	.....	(NA)	(X)	13.4	(X)	3.1
26470 00	Sanitary paper products, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	7.3	(X)	7.0
26470 02	Sanitary paper products, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	18.3	(X)	1.1

See footnotes at end of table.

Table 6a. **Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972** – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments [1]		Product shipments	
				Quantity [2]	Value (million dollars)	Quantity	Value (million dollars)
	STATIONERY PRODUCTS						
2648- --	Total	.....	(NA)	(X)	630.5	(X)	421.5
26481 --	Stationery	.....	(NA)	(X)	141.2	(X)	118.1
26481 11	Boxed stationery and portfolios	1,000 s. tons of paper and board consumed	30	29.5	54.9	(S)	56.6
26481 13	Weddings and social announcements (paper, cards, and envelopes)		16	(S)	36.3	(S)	15.4
26481 15	Package paper and envelopes		26	**18.1	26.3	(S)	34.9
26481 19	Other stationery	1,000 s. tons of paper and board consumed	10	(S)	16.1	(S)	11.2
26481 00	Stationery, n.s.k.	.....	(NA)	(X)	7.6	(X)	
26482 --	Tablets and related products	.....	(NA)	(X)	425.5	(X)	219.6
26482 51	Correspondence type tablets	1,000 s. tons of paper and board consumed	14	*12.2	13.0	18.2	11.1
26482 52	Legal pads (lithographed, printed, ruled, bound, or wire-bound, all sizes)		22	(S)	40.3	**42.0	21.7
26482 54	Tablets and pads-- book and writing paper grades, except legal pads and memo books		33	(S)	54.7	**43.5	23.0
26482 55	Newsprint tablets and pads		16	*14	12.7	**10.1	5.7
26482 56	Memo books, other than case made		7	*5.5	7.2	**4.6	2.9
26482 57	Notebooks, including composition books, steno books, mechanically bound by thread, wire, or plastics		31	**110.0	117.4	**65.6	42.7
26482 61	Looseleaf fillers (school and commercial types)		27	*79.2	65.4	**173.9	73.8
26482 65	Wrapped ream papers		20	105.6	60.7	**57.6	24.2
26482 69	Other tablets and related products	1,000 s. tons of paper and board consumed	17	**29.7	25.8	**25.8	14.5
26482 00	Tablets and related products, n.s.k.	.....	(NA)	(X)	28.2	(X)	
26480 00	Stationery products, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	54.3	(X)	59.3
26480 02	Stationery products, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	9.5	(X)	24.5
	CONVERTED PAPER PRODUCTS, N.E.C.						
2649- --	Total	.....	(NA)	(X)	1,748.8	(X)	661.8
26492 --	Wrapping products (gift wrap, etc.)	.....	(NA)	(X)	251.5	(X)	181.2
	Gift wrap paper (all types and basic weights, generally defined as retail counter items; including coated papers but excluding laminations to foil):						
26492 82	Rolls	1,000 s. tons of paper and board consumed	24	(S)	140.1	[7]80.1	86.3
26492 91	Folds	1,000 s.tons of paper and board consumed	15	(S)	57.3	(S)	39.3
	By end use:						
26492 93	Christmas gift wrapping	.....	(NA)	(X)	(NA)	(X)	[11]57.2
26492 94	Everyday gift wrapping (all gift wrapping, except Christmas)	.....	(NA)	(X)	(NA)	(X)	[11]52.1
26492 95	Other gift wrapping, counter rolls and flat sheets, for store's own use	1,000 s. tons of paper and board consumed	5	(S)	14.8	16.3	17.5
26492 65	Creped wadding for packaging (cellulose) and crepe paper, excluding fine crepe paper		8	*16.7	14.0	38.5	19.2
26492 98	Other wrapping products, except coated, laminated, oiled, waxed, and printed, including saturated and impregnated paper, etc., and including paper gift wrap materials shipped to other manufacturers for further processing in preparing a complete put-upper package	1,000 s. tons of paper and board consumed	6	**11.8	16.9	43.5	15.4
26492 00	Wrapping products (gift wrap, etc.), n.s.k.	.....	(NA)	(X)	8.4	(X)	3.5
26493 --	Wallcoverings	.....	(NA)	(X)	306.5	(X)	83.0
26493 21	Paper, nonstrippable (produced on a conventional hanging stock)	1,000 rolls....	19	**33,605.3	42.2		
26493 23	Paper, nonwoven and combinations thereof, dry strippable		10	**22,192.4	45.4		
26493 25	Paper, plastics coated or laminated to 1 mil of vinyl or more		18	(S)	48.0	74.6	74.8
26493 31	Fabric, plastics coated or laminated woven or nonwoven	1,000 rolls....	18	(S)	157.4		
26493 41	Other wallcoverings, including panel decorations	.....	7	(X)	8.0		
26493 00	Wallcoverings, n.s.k.	.....	(NA)	(X)	5.6	(X)	8.2
26495 --	Other converted paper and board products	.....	(NA)	(X)	948.1	(X)	391.0

See footnotes at end of table.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972 – Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	CONVERTED PAPER PRODUCTS, N.E.C.--Con.						
	Other, converted paper and board products--Con.						
	Business machine supplies:						
26495 11	Rolls for adding and other business machines	1,000 s. tons of paper and board consumed	24	(S)	97.5	97.9	41.3
26495 17	Other, including tapes, teletypes, etc.		17	(S)	30.2	50.2	27.2
26495 21	Manifold carbon paper sets		3	(S)	73.5	([12])	([12])
26495 33	Other miscellaneous office supplies, including safety paper		8			(S)	8.3
	Novelties, games, displays, and similar products:						
26495 41	Fine creped paper, excluding creped wrapping		7	(S)	*12.0	3.6	8.5
26495 47	Other	1,000 s. tons of paper and board consumed	14	(S)	48.0	19.4	22.5
	Industrial paper and board products:						
26495 63	Laminated wallboard	1,000 sq. ft. 1/8" basis.	3	(S)	212.0	122.8	28.2
26495 66	Tile wallboard	1,000 sq. ft. 1/8" basis.	3			(S)	65.0
26495 69	Other industrial paper and board products	1,000 s. tons of paper and board consumed	82				
	Miscellaneous paper products:						
26495 71	Doilies, place mats, and tray doilies (or tray covers)		20	**31.9	48.5	41.1	23.6
26495 82	Tags, unprinted		18	(S)	42.0	10.5	13.3
26495 87	Folders and mounts, all types, except file folders		6	(S)	8.3	6.4	9.1
26495 98	Other miscellaneous paper and board products, including labels (unprinted, except gummed), cigarette paper books, paper draperies, shelf paper, printed and unprinted, etc.	1,000 s. tons of paper and board consumed	116	(S)	315.6	(S)	[12]122.2
26495 00	Other converted paper and board products, n.s.k.	.....	(NA)	(X)	60.5	(X)	21.8
26490 00	Converted paper products, n.e.c., n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	[13]190.0	(X)	[13]6.6
26490 02	Converted paper products, n.e.c., n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	[13]52.7	(X)	([13])

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]Quantity and value reported by all producers of products, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estmated in this manner equals or exceeds 10 percent of published figure * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated, If 30 percent or more is estimated, figure is replaced by (S).

[3]For 1972, separate data were published for "household waxed paper," "delicatessen paper," and "locker, including freezing paper."

[4]Comparable quarterly data for related products are published in Current Industrial Reports MQ-26F, Converted Flexible Packaging Products.

[5]For 1972, separate data were published for "printed and unprinted breadwraps," "biscuit and cracker innerwraps," "cereal and similar wraps," "frozen food carton overwraps" and "other waxed and waxed-laminated paper, including candy wraps, cheese wraps, etc."

[6]30 to 50 percent of quantity was estimated.

[7]10 to 30 percent of quantity was estimated.

[8]For 1977, product codes 26471 12 and 26471 13 were included with product code 26471 51 to avoid disclosing operations of individual companies.

[9]Excludes value of premoistened towellettes, which are classified in Industry 2844, Toilet Preparations. For 1977, value of shipments was $22.2 million.

[10]For 1977, product code 26472 85 was included with product code 26472 98 to avoid disclosing operations of individual companies.

[11]Not included in product class or industry totals, value is memo item indicating distribution of value of shipments by end use for product codes 26492 82 and 26492 91. However, values do not equal total of product codes 26492 82 and 26492 91 since not all respondents reported their shipments by end use.

[12]For 1972, product code 26495 21 was included with product code 26495 98.

[13]For 1972 and 1977, data are not completely comparable because of 1972 SIC revisions which transferred stationery products from industry 2649 to industry 2648 and wallpaper from industry 2644 to industry 2649. In 1972, data for all small single-unit companies with less than 10 employees (excluded from the mail portion of the census) were included in industry 2648.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972**

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
26411, PRINTING PAPER, COATED AT ESTABLISHMENTS NOT MAKING PAPER		
United States	172.0	111.8
Middle Atlantic Division:		
Pennsylvania	34.3	EE
26412, OILED, WAXED, WAX-LAMINATED PAPER (PLAIN OR PRINTED)		
United States	230.6	153.2
Middle Atlantic Division:		
New Jersey	12.0	13.8
East North Central Division:		
Ohio	28.0	30.9
Illinois	11.1	7.7
Wisconsin	45.9	23.5
South Atlantic Division:		
Florida	2.9	(NA)
26413, GUMMED PRODUCTS		
United States	187.6	139.2
Middle Atlantic Division:		
Pennsylvania	4.0	CC
East North Central Division:		
Ohio	35.2	26.9
Michigan	3.7	(NA)
Wisconsin	31.5	17.8
26414, PRESSURE SENSITIVE TAPE		
United States	1,177.7	574.5
New England Division:		
Massachusetts	49.8	29.7
Middle Atlantic Division:		
New York	52.6	FF
New Jersey	82.5	47.7
Pennsylvania	112.4	FF
East North Central Division:		
Ohio	168.3	FF
Illinois	156.5	94.9
West South Central Division:		
Texas	8.5	(NA)
Pacific Division:		
California	43.9	14.9
26417, LAMINATED AND COATED ROLLS AND SHEETS FOR PACKAGING, EXCEPT WAXED		
United States	716.9	356.9
New England Division:		
Massachusetts	54.9	FF
Rhode Island	6.1	BB
Middle Atlantic Division:		
New York	17.7	23.7
New Jersey	22.9	15.5
Pennsylvania	21.4	9.9
East North Central Division:		
Ohio	27.7	17.3
Illinois	79.9	34.9
Michigan	17.6	10.6
Wisconsin	104.7	GG
West North Central Division:		
Minnesota	8.2	(NA)
South Atlantic Division:		
North Carolina	36.6	CC
Florida	15.3	BB
East South Central Division:		
Tennessee	40.8	EE
West South Central Division:		
Texas	38.0	EE
Pacific Division:		
California	55.5	26.9
26418, OTHER COATED PROCESSED PAPER, EXCEPT PACKAGING AND WAXED		
United States	421.1	263.6
New England Division:		
Massachusetts	69.1	47.8
Middle Atlantic Division:		
New York	25.9	13.4
New Jersey	3.6	EE
East North Central Division:		
Illinois	12.6	9.0
Michigan	8.3	EE
26431, GROCERS' AND VARIETY PAPER BAGS, AND SHOPPING BAGS		
United States	801.6	493.1
Middle Atlantic Division:		
New York	59.3	FF
West North Central Division:		
Missouri	7.3	(NA)
South Atlantic Division:		
Virginia	59.1	FF
Florida	87.4	92.9
West South Central Division:		
Louisiana	85.3	66.1
Pacific Division:		
California	77.0	38.6
26432, SPECIALTY BAGS AND LINERS		
United States	1,615.7	819.5
New England Division:		
Massachusetts	43.7	FF
Rhode Island	4.4	BB
Middle Atlantic Division:		
New Jersey	115.3	43.3
Pennsylvania	93.3	55.1
East North Central Division:		
Ohio	77.0	34.6
Indiana	70.0	19.0
Illinois	205.8	119.9
Michigan	57.6	27.3
Wisconsin	84.8	17.3
West North Central Division:		
Minnesota	13.7	8.9
Iowa	46.0	22.7
Missouri	10.3	26.0
Kansas	9.7	BB
South Atlantic Division:		
Maryland	7.4	3.4
Virginia	11.3	CC
North Carolina	27.1	18.2
South Carolina	45.0	FF
Georgia	121.3	72.2
Florida	25.6	17.6
East South Central Division:		
Tennessee	52.9	26.2
West South Central Division:		
Texas	103.1	35.5
Pacific Division:		
Washington	37.3	EE
California	129.8	70.1

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** — Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
26433, SHIPPING SACKS AND MULTIWALL BAGS		
United States	672.6	428.5
Middle Atlantic Division:		
New York	5.6	CC
Pennsylvania	25.5	13.1
East North Central Division:		
Ohio	30.1	15.0
Indiana	20.4	CC
Illinois	21.3	EE
West North Central Division:		
Iowa	21.9	EE
Missouri	46.2	21.7
South Atlantic Division:		
Virginia	18.4	22.1
Georgia	66.4	31.9
East South Central Division:		
Tennessee	21.6	EE
West South Central Division:		
Arkansas	82.6	59.5
Louisiana	54.4	38.0
Texas	31.2	10.6
Pacific Division:		
Washington	24.5	EE
California	58.8	35.2
26451, DIE-CUT OFFICE SUPPLIES AND MISCELLANEOUS PRODUCTS		
United States	484.9	342.9
New England Division:		
Massachusetts	29.8	13.9
Middle Atlantic Division:		
New York	68.7	45.7
New Jersey	49.9	41.4
Pennsylvania	17.0	8.9
East North Central Division:		
Ohio	44.9	21.6
Illinois	44.9	30.2
Michigan	48.9	37.3
Wisconsin	8.8	BB
West North Central Division:		
Minnesota	29.6	18.9
Missouri	11.1	CC
South Atlantic Division:		
Georgia	14.1	EE
Florida	2.9	AA
West South Central Division:		
Texas	11.1	EE
Pacific Division:		
Washington	4.7	BB
California	44.1	29.2
26452, PASTED, LINED, LAMINATED, OR COATED PAPERBOARD		
United States	438.4	271.3
New England Division:		
Massachusetts	2.2	11.8
Middle Atlantic Division:		
New York	17.1	13.6
New Jersey	36.9	18.5
Pennsylvania	9.8	6.1
East North Central Division:		
Illinois	19.2	11.8
Pacific Division:		
California	10.6	CC
26462, OTHER MOLDED PULP GOODS		
United States	225.9	136.3
Middle Atlantic Division:		
Pennsylvania	2.2	1.3
26472, SANITARY TISSUE HEALTH PRODUCTS		
United States	3,948.3	1,692.7
New England Division:		
Massachusetts	19.7	FF
Middle Atlantic Division:		
New York	131.5	61.8
New Jersey	100.7	FF
East North Central Division:		
Illinois	82.8	BB
Wisconsin	845.0	387.6
Pacific Division:		
California	347.0	105.5
26481, STATIONERY		
United States	141.2	118.1
New England Division:		
Massachusetts	20.2	14.9
Middle Atlantic Division:		
New York	3.9	5.4
Pennsylvania	11.6	14.3
East North Central Division:		
Ohio	3.1	2.1
Illinois	10.7	7.3
Michigan	2.7	BB
West North Central Division:		
Iowa	2.6	(NA)
Missouri	9.6	22.9
South Atlantic Division:		
Maryland	4.2	AA
West South Central Division:		
Texas	4.1	BB
Pacific Division:		
California	5.3	CC
26482, TABLETS AND RELATED PRODUCTS		
United States	425.2	219.6
New England Division:		
Massachusetts	47.4	FF
Middle Atlantic Division:		
New York	20.5	15.6
New Jersey	24.6	14.9
Pennsylvania	33.3	18.1
East North Central Division:		
Illinois	24.8	15.7
Wisconsin	13.6	CC
South Atlantic Division:		
Florida	7.5	BB
West South Central Division:		
Texas	25.6	12.4
Pacific Division:		
California	21.6	EE

See footnotes at end of table.

Table 6b. **Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972** - Con.

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
26492, WRAPPING PRODUCTS (GIFT WRAP, ETC.)		
United States	251.5	181.2
New England Division:		
Vermont	12.0	CC
Massachusetts	15.5	8.8
Middle Atlantic Division:		
New York	3.8	4.6
Pennsylvania	47.2	EE
Pacific Division:		
California	5.9	CC
26493, WALLCOVERINGS		
United States	306.5	83.0
Middle Atlantic Division:		
New York	64.3	37.5
New Jersey	53.5	8.6
Pennsylvania	34.4	6.0
East North Central Division:		
Illinois	18.3	12.7
Pacific Division:		
California	15.5	CC
26495, OTHER CONVERTED PAPER AND BOARD PRODUCTS		
United States	961.3	391.0
New England Division:		
New Hampshire	10.5	BB
Massachusetts	57.7	37.6
Rhode Island	2.2	BB
Connecticut	14.5	3.1
26495, OTHER CONVERTED PAPER AND BOARD PRODUCTS--Con.		
Middle Atlantic Division:		
New York	101.5	45.4
New Jersey	70.0	29.4
Pennsylvania	75.5	46.0
East North Central Division:		
Ohio	55.0	33.0
Indiana	54.1	19.2
Illinois	83.3	21.0
Michigan	44.5	11.0
Wisconsin	50.4	22.8
West North Central Division:		
Minnesota	11.9	BB
Missouri	9.7	4.1
Kansas	28.2	AA
South Atlantic Division:		
North Carolina	18.0	4.0
Georgia	7.5	6.7
Florida	3.4	EE
East South Central Division:		
Tennessee	42.0	EE
West South Central Division:		
Louisiana	7.9	(NA)
Texas	16.6	9.8
Pacific Division:		
Washington	4.8	AA
California	65.1	29.1

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9, EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.
(NA) Not available.

Table 6c. Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
2641-	Coated and glazed paper	3,037.3	2,653.0	2,198.4	2,349.6	1,968.2	1,650.5	1,354.6	1,170.7
26411	Printing paper, coated at establishment not making paper	172.0	174.7	145.3	144.7	133.9	111.8	125.3	147.9
26412	Oiled, waxed, wax-laminated paper (plain or printed)	230.6	242.8	216.3	199.1	156.9	153.2	189.4	213.3
26413	Gummed products	187.6	167.5	163.5	185.7	151.8	139.2	125.6	98.2
26414	Pressure sensitive tape	1,177.7	889.7	732.6	794.4	735.3	574.5	438.3	311.7
26417	Laminated and coated rolls and sheets for packaging, except waxed	716.9	601.5	481.3	507.7	392.2	356.9	448.3	392.2
26418	Other coated processed paper, except packaging and waxed	421.1	(S)	(S)	(S)	355.5	263.6		
26410	Coated and glazed paper, n.s.k.	131.3	(S)	(S)	(24.5)	42.6	51.3	27.7	7.6
26420	Envelopes, except stationery	980.6	842.8	805.5	(812.8)	658.1	587.9	443.4	330.7
2643-	Bags, except textile bags	3,304.1	3,248.1	2,915.3	2,837.9	2,103.1	1,829.4	1,292.7	976.9
26431	Grocers' and variety paper bags, and shopping bags	801.6	814.7	773.3	765.3	586.5	493.1	362.8	254.1
26432	Specialty bags and liners	1,615.7	1,602.5	1,419.5	1,222.6	919.8	819.5	571.4	416.1
26433	Shipping sacks and multiwall bags	672.6	663.2	569.6	668.0	495.8	428.5	316.4	288.6
26430	Bags, except textile, n.s.k.	214.3	(167.8)	(152.9)	(182.0)	101.0	88.3	42.1	18.1
2645-	Die-cut paper and board	1,034.3	983.2	882.2	884.3	691.0	645.9	547.6	380.1
26451	Die-cut office supplies and miscellaneous products	484.9	513.2	469.3	474.9	374.7	342.9	346.6	297.8
26452	Pasted, lined, laminated, or coated paperboard	438.4	446.6	402.1	399.5	297.2	271.3	167.7	73.1
26450	Die-cut paper and board, n.s.k.	111.0	(23.4)	(S)	(9.9)	(19.1)	31.7	33.3	9.2
2646-	Pressed and molded pulp goods	239.6	218.9	203.3	202.2	184.6	161.6	142.7	112.0
26461	Bituminous fiber pipe	(D)	(D)	13.9	19.4	17.3	21.3	22.6	23.0
26462	Other molded pulp goods	225.9	208.4	188.2	181.6	162.4	136.3	118.3	89.1
26460	Pressed and molded pulp goods, n.s.k.	(D)	(S)	(S)	(S)	4.9	4.0	1.8	(NA)
2647-	Sanitary paper products	4,562.6	4,186.7	3,647.1	3,040.7	2,201.4	1,981.9	1,234.4	925.4
26471	Sanitary napkins and tampons	588.7	445.6	384.0	331.2	292.3	281.1	182.1	142.0
26472	Sanitary tissue health products	3,948.3	3,720.3	3,257.9	2,692.7	1,897.1	1,692.7	1,040.6	783.4
26470	Sanitary paper products, n.s.k.	25.6	20.8	5.1	16.8	12.0	8.1	11.7	(NA)
2648-	Stationery products	630.5	509.9	483.1	486.2	460.1	421.5	310.3	231.2
26481	Stationery	141.2	129.9	128.9	119.9	124.6	118.1		
26482	Tablets and related products	425.5	371.8	344.6	351.4	278.2	219.6	310.3	231.2
26480	Stationery products, n.s.k.	63.8	(S)	(S)	(S)	57.3	83.8		
2649-	Converted paper products, n.e.c.	1,748.8	1,267.4	1,107.4	1,073.3	938.2	661.8	493.0	421.0
26492	Wrapping products (gift wrap, etc.)	251.5	(271.2)	(217.5)	(241.3)	(294.5)	181.2	109.4	88.2
26493	Wallcoverings	306.5	(207.2)	(187.0)	181.4	112.7	83.0	46.2	33.6
26495	Other converted paper and board products	948.1	783.2	700.4	653.8	527.0	391.0	283.8	270.1
26490	Converted paper products, n.e.c., n.s.k.	242.7	(S)	(S)	(NA)	4.0	6.6	[2]53.6	[2]29.1

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because the estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

[2]1967 and 1963 data for product class 26490 are not completely comparable to later years because of 1972 SIC revisions to industry 2649.

Table 7. **Materials Consumed by Kind: 1977 and 1972**

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 2641, PAPER COATING AND GLAZING					
	Materials, parts, containers, and supplies	.....	(X)	1,790.5	(X)	907.9
	Paper:					
262105	Own paper, produced at same location or other affiliated or associated mills	1,000 s. tons	1,562.2	714.5	462.8	120.3
262106	Purchased (market) paper	1,000 s. tons			889.4	246.2
289101	Glues and adhesives	Million lb	(D)	(D)	215.0	33.4
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.[2]		(D)	(D)	298.1	51.6
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes[3]		(X)	195.2	74.8	35.7
289301	Printing ink (complete formulations)		32.9	35.9	24.8	19.0
291106	Petroleum wax	Million lb	(D)	(D)	96.1	9.3
265001	Paperboard boxes and containers	.....	(X)	41.1	(X)	13.4
	Aluminum foil:					
335335	Plain	Million lb	(D)	(D)	25.0	14.3
349702	Converted	Million lb	6.8	10.7	3.5	2.4
970099	All other materials and components, parts, containers, and supplies	.....	(X)	390.5	(X)	255.6
971000	Materials, parts, containers, and supplies, n.s.k.[4]	.....	(X)	149.5	(X)	106.7
	INDUSTRY 2642, ENVELOPES					
	Materials, parts, containers, and supplies	.....	(X)	441.3	(X)	243.1
	Paper:					
262105	Own paper, produced at same location or other affiliated or associated mills	1,000 s. tons	44.1	19.5	48.2	13.7
262106	Purchased (market) paper		620.5	293.5	617.8	167.6
	Paperboard:					
263103	Purchased (market) paperboard	1,000 s. tons	[5]13.1	[5]3.9	[5]29.0	[5]5.1
265001	Paperboard boxes and containers	.....	(X)	24.9	(X)	([6])
289101	Glues and adhesives	Million lb	(S)	15.1	42.1	9.4
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes[3]	Million lb	(X)	7.5	14.5	7.1
970099	All other materials and components, parts, containers, and supplies	.....	(X)	35.5	(X)	[6]31.3
971000	Materials, parts, containers, and supplies, n.s.k.[4]	.....	(X)	41.4	(X)	8.9
	INDUSTRY 2643, BAGS, EXCEPT TEXTILE BAGS					
	Materials, parts, containers, and supplies	.....	(X)	2,030.6	(X)	1,003.5
	Paper:					
262105	Own paper, produced at same location or other affiliated or associated mills	1,000 s. tons	1,391.1	366.3	1,447.0	231.1
262106	Purchased (market) paper	1,000 s. tons	*1,786.9	520.4	1,168.5	221.3
289101	Glues and adhesives	Million lb	*122.0	24.1	99.0	12.8
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.[2]		1,695.2	483.7	1,036.7	122.4
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes[3]		(X)	144.8	286.1	75.5
289301	Printing ink (complete formulations)		*53.2	54.8	46.9	30.3
291106	Petroleum wax	Million lb	9.2	2.2	(D)	([6])
265001	Paperboard boxes and containers	.....	(X)	53.2	(X)	16.7
	Aluminum foil:					
335335	Plain	Million lb	8.0	7.9	2.8	1.4
349702	Converted	Million lb	**1.9	3.8	3.2	1.8
970099	All other materials and components, parts, containers, and supplies	.....	(X)	139.9	(X)	[6]134.8
971000	Materials, parts, containers, and supplies, n.s.k.[4]	.....	(X)	229.5	(X)	126.2
	INDUSTRY 2645, DIE-CUT PAPER AND BOARD					
	Materials, parts, containers, and supplies	.....	(X)	586.3	(X)	355.6
	Paper:					
262105	Own paper, produced at same location or other affiliated or associated mills	1,000 s. tons	63.2	22.7	[7]114.2	19.0
262106	Purchased (market) paper		*195.9	98.4	[7]395.4	102.5
	Paperboard:					
263102	Own paperboard, produced at same location or other affiliated or associated mills		644.7	159.2	650.1	89.0
263103	Purchased (market) paperboard	1,000 s. tons	*281.5	105.3	303.5	50.7
265001	Paperboard boxes and containers	.....	(X)	14.9	(X)	([6])
289101	Glues and adhesives	Million lb	**11.2	4.8	14.8	2.9
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes[3]	Million lb	(X)	24.6	[7]6.2	4.1
970099	All other materials and components, parts, containers, and supplies	.....	(X)	69.9	(X)	[6]58.0
971000	Materials, parts, containers, and supplies, n.s.k.	.....	(X)	86.5	(X)	29.4

See footnotes at end of table.

Table 7. **Materials Consumed by Kind: 1977 and 1972**—Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of Materials)

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity[1]	1972 Delivered cost (million dollars)
	INDUSTRY 2646, PRESSED AND MOLDED PULP GOODS					
	Materials, parts, containers, and supplies	.....	(X)	66.2	(X)	49.0
240000	Pulpwood, including logs, slabs, chips, sawdust, and other wood	1,000 s. tons..	(D)	(D)	(6)	(6)
261101	Wood pulp used in making pressed and molded pulp products	1,000 s. tons..	(D)	(D)	121.7	13.8
941110	Waste paper, all types	1,000 s. tons..	166.3	15.6	198.3	10.1
289101	Glues and adhesives	Million lb.....	(D)	(D)	**1.5	.7
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	Million lb.....	(D)	(D)	(D)	(6)
265001	Paperboard containers and boxes	1,000 s. tons..	(S)	2.9	(X)	(6)
970099	All other materials and components, parts, containers, and supplies consumed	.....	(X)	23.7	(X)	621.9
971000	Materials, parts, containers, and supplies, n.s.k.[4]	.....	(X)	1.3	(X)	1.5
	INDUSTRY 2647, SANITARY PAPER PRODUCTS					
	Materials, parts, containers, and supplies	.....	(X)	2,686.3	(X)	1,146.4
	Paper:					
262105	Own paper, produced at same location or other affiliated or associated mills	1,000 s. tons.	1,915.9	651.3	3,286.0	720.9
262106	Purchased (market) paper		*1,753.5	936.1	291.8	72.0
263105	Paperboard, except that used for shipping		*38.2	14.9	26.1	4.1
261105	Wood pulp (air dry basis)	1,000 s. tons.	773.2	251.3	(X)	(6)
289101	Glues and adhesives	Million lb....	70.3	37.1	32.0	9.1
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.		(X)	97.7	(NA)	(6)
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes[3]				96.2	33.7
289301	Printing ink (complete formulations)	Million lb....	(S)	10.9	7.2	5.1
229710	Nonwoven fabric	Million sq.yd.	(S)	169.5	(S)	72.6
265001	Paperboard boxes and containers	.....	(X)	236.4	(X)	106.0
970099	All other materials and components, parts, containers, and supplies	.....	(X)	246.8	(X)	6103.6
971000	Materials, parts, containers, and supplies, n.s.k.[4]	.....	(X)	34.3	(X)	19.3
	INDUSTRY 2648, STATIONERY PRODUCTS					
	Materials, parts, containers, and supplies	.....	(X)	309.2	(X)	197.2
	Paper:					
262105	Own paper, produced at same location or other affiliated or associated mills	1,000 s. tons..	29.1	12.6	(D)	(D)
262106	Purchased (market) paper		395.0	185.2	*431.8	107.4
	Paperboard:					
263102	Own paperboard, produced at same location or other affiliated or associated mills		(D)	(D)	(D)	(D)
263103	Purchased (market) paper	1,000 s. tons..	**45.6	12.3	**51.5	7.9
289101	Glues and adhesives	Million lb.....	*3.6	1.8	*3.6	1.1
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.		(D)	(D)	(NA)	(6)
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes[3]		(X)	5.9	3.5	2.1
289301	Printing ink (complete formulations)	Million lb.....	**.3	.8	(NA)	(6)
229710	Nonwoven fabric	Million sq.yd..	(D)	(D)	(NA)	(6)
265001	Paperboard boxes and containers	.....	(X)	10.1	(X)	7.4
970099	All other materials and components, parts, containers, and supplies	.....	(X)	16.2	(X)	619.3
971000	Materials, parts, containers, and supplies, n.s.k.[4]	.....	(X)	63.0	(X)	37.4
	INDUSTRY 2649, CONVERTED PAPER PRODUCTS, N.E.C.					
	Materials, parts, containers, and supplies	.....	(X)	807.1	(X)	279.5
	Paper:					
262105	Own paper, produced at same location or other affiliated or associated mills	1,000 s. tons..	**31.5	8.6	151.0	31.8
262106	Purchased (market) paper		**392.7	194.9	344.2	90.7
	Paperboard:					
263102	Own paperboard, produced at same location or other affiliated or associated mills		(S)	12.6	13.4	1.9
263103	Purchased (market) paper	1,000 s. tons..	*144.8	41.6	65.0	10.4
289101	Glues and adhesives	Million lb.....	**23.7	6.8	33.8	4.3
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.		(S)	18.5	10.6	2.5
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes[3]		(X)	28.7	9.2	4.3
289301	Printing ink (complete formulations)	Million lb.....	*16.5	11.7	16.5	7.9
229710	Nonwoven fabric	Million sq. yd.	(S)	6.6	17.4	.6
265001	Paperboard boxes and containers	.....	(X)	20.6	(X)	8.2
	Aluminum foil:					
335335	Plain	Million lb.....	5.8	4.7	12.0	6.4
349702	Converted	Million lb.....	.7	1.3		
970099	All other materials and components, parts, containers, and supplies	.....	(X)	146.4	(X)	84.8
971000	Materials, parts, containers, and supplies, n.s.k.[4]	.....	(X)	304.1	(X)	25.7

Footnotes are on next page.

Table 7. **Materials Consumed by Kind: 1977 and 1972**–Con.

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. N.E.C. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]1972 data may not be directly comparable with 1977 data because of revision in description. For 1972, material code 282130 read "Thermoplastic resins including modified resins."

[3]1972 data may not be directly comparable with 1977 data because of revision in description. For 1972, material code 307916 read "Unsupported plastics film, sheets and sheeting, except cellulosic."

[4]Total cost of materials of establishments that did not report detailed materials data; including establishments that were not mailed a form.

[5]Includes an insignificant amount of "Own paperboard" to avoid disclosing figures for individual companies.

[6]Code was included with code 970099.

[7]10 to 30 percent of quantity was estimated.

Paperboard Containers and Boxes

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DESCRIPTION OF INDUSTRIES

PAPERBOARD CONTAINERS AND BOXES

This report shows 1977 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC Code	Title
2651	Folding Paperboard Boxes
2652	Setup Paperboard Boxes
2653	Corrugated and Solid Fiber Boxes
2654	Sanitary Food Containers
2655	Fiber Cans, Drums, and Similar Products

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry), were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.

INDUSTRY 2651, FOLDING PAPERBOARD BOXES

This industry comprises establishments primarily engaged in the manufacture of folding paperboard boxes from purchased paperboard.

The total value of shipments for establishments classified in the Folding Paperboard Boxes industry amounted to $2,579 million in 1977, an increase of 73 percent from 1972. The value of shipments of products classified as primary to the industry was $2,393 million, an increase of 75 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were folding paperboard boxes for soaps and detergents, for which shipments increased 83 percent, and folding paperboard boxes for bottled and canned beverages, for which shipments increased 88 percent. Value added by manufacture, at $1,137 million in 1977, was 54 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 44.7 thousand employees, a decrease of 1 percent from 1972. The leading States in employment were New York, Ohio, Illinois, and California, accounting for approximately 41 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 40 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 2652, SETUP PAPERBOARD BOXES

This industry comprises establishments primarily engaged in the manufacture of setup paperboard boxes from purchased paperboard. Establishments primarily engaged in the manufacture of folding paperboard boxes are classified in industry 2651.

The total value of shipments for establishments classified in the Setup Paperboard Boxes industry amounted to $361 million in 1977, an increase of 12 percent from 1972. The value of shipments of products classified as primary to the industry was $378 million, an increase of 10 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $212 million in 1977, was 8 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 13.1 thousand employees, a decrease of 28 percent from 1972. The leading States in employment were New York, Massachusetts, and Pennsylvania, accounting for approximately 42 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 45 percent of the industry's employment.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number

of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 12 percent of total value of shipments.

INDUSTRY 2653, CORRUGATED AND SOLID FIBER BOXES

This industry comprises establishments primarily engaged in the manufacture of corrugated and solid fiber boxes and related products from purchased paperboard of fiber stock. Important products of this industry include corrugated and solid fiber boxes, pads, partitions, display items, pallets, single-faced products, and corrugated sheets.

The total value of shipments for establishments classified in the Corrugated and Solid Fiber Boxes industry amounted to $7,351 million in 1977, an increase of 71 percent from 1972. The value of shipments of products classified as primary to the industry was $7,183 million, an increase of 71 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were shipping containers for food and beverages, for which shipments increased 104 percent, and corrugated shipping containers for paper and allied products, for which shipments increased 109 percent. The changes reflect a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $2,704 million in 1977, was 56 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 101.5 thousand employees, a decrease of 6 percent from 1972. The leading States in employment were Illinois, California, Ohio, and Pennsylvania, accounting for approximately 32 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 32 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of total value of shipments.

INDUSTRY 2654, SANITARY FOOD CONTAINERS

This industry comprises establishments primarily engaged in the manufacture of food containers from special food board. Important products of this industry include fluid milk containers; folding parafinned cartons for butter, margarine, and shortening, ice cream containers; frozen food containers; liquid-tight containers; round nested food containers; paper cups for hot or cold drinks; pails for food and ice cream; and stamped plates, dishes, spoons, and similar products. Establishments primarily engaged in the manufacture of similar items of plastics materials are classified in industry 3079.

The total value of shipments for establishments classified in the Sanitary Food Containers industry amounted to $2,048 million in 1977, an increase of 44 percent from 1972. The value of shipments of products classified as primary to the industry was $1,965 million, an increase of 42 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were drinking cups and portion serving cups, for which shipments increased 56 percent, and frozen foods and fresh bakery containers, including frozen bakery, for which shipments increased 49 percent. The change reflected a general trend in the shipments of most of the products of the industry. Value added by manufacture, at $837 million in 1977, was 27 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 28.7 thousand employees, a decrease of 18 percent from 1972. The leading States in employment were Maryland, Illinois, California, and Pennsylvania, accounting for approximately 40 percent of the industry's 1977 employment. These same States were in the forefront for 1972 when they accounted for approximately 34 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

INDUSTRY 2655, FIBER CANS, DRUMS, AND SIMILAR PRODUCTS

This industry comprises establishments primarily engaged in the manufacture of fiber cans, cores, tubes, cones, drums, and similar products, with or without metal ends, from purchased materials; and vulcanized fiber boxes.

The total value of shipments for establishments classified in the Fiber Cans, Drums, and Similar products industry amounted to $1,011 million in 1977, an increase of 78 percent from 1972. The value of shipments of products classified as primary to the industry was $1,040 million, an increase of 68 percent from 1972. (See the Introduction for a discussion of the difference between value of shipments for the industry and value of product shipments.) The products accounting for a significant portion of this change were cans, all fiber and composite, for which shipments increased 85 percent, and fiber drums, for which shipments increased 63 percent. Value added by manufacture, at $407 million in 1977, was 53 percent above value added in 1972. All dollar figures shown in this report are in current dollars; they are therefore not adjusted for changes in price levels.

In 1977 the industry had 16.1 thousand employees, a decrease of 7 percent from 1972. The leading States in employment were Ohio, South Carolina, New Jersey, and Pennsylvania, accounting for approximately 40 percent of the industry's 1977 employment. Data for South Carolina have been withheld to avoid disclosing operations of individual companies. However, establishment counts and employment size ranges are provided.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
INDUSTRY 2651, FOLDING PAPERBOARD BOXES																
1977 Census--	452	574	374	44.7	577.8	35.8	71.8	409.8	1 136.8	1 460.2	2 579.0	89.8	(NA)	421.8	87	91
1976 ASM----	(NA)	(NA)	(NA)	40.6	498.5	32.2	66.1	354.2	974.8	1 301.8	2 233.3	65.2	857.0	378.8	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	38.3	434.9	30.1	60.9	300.7	849.7	1 088.2	1 952.2	67.0	719.2	318.2	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	43.2	442.9	34.5	69.0	310.1	896.7	1 036.3	1 890.0	60.0	668.3	335.9	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	45.3	423.5	36.6	73.5	306.5	825.5	848.4	1 643.8	41.8	634.4	270.2	(NA)	(NA)
1972 Census--	442	544	376	45.3	398.1	36.5	73.4	285.9	739.7	762.3	1 487.0	37.4	631.7	219.9	85	91
1971 ASM----	(NA)	(NA)	(NA)	44.9	366.6	35.9	72.2	260.3	665.3	702.0	1 365.6	33.7	557.4	190.5	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	48.7	369.6	39.1	78.9	266.0	664.8	718.2	1 387.3	49.9	621.5	192.6	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	53.5	384.6	43.4	89.3	275.8	693.3	764.4	1 446.4	43.1	583.7	215.0	(NA)	(NA)
1968 ASM[5]---	(NA)	(NA)	(NA)	48.6	338.2	39.4	81.6	242.4	633.0	685.4	1 312.7	54.4	518.9	185.8	(NA)	(NA)
1967 Census--	476	569	393	49.3	322.6	39.5	82.1	228.8	563.2	657.2	1 216.2	42.2	488.3	172.7	84	90
1966 ASM----	(NA)	(NA)	(NA)	54.3	336.7	43.8	91.3	239.7	585.3	711.1	1 289.5	38.0	(NA)	182.9	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	51.6	310.8	41.6	87.0	224.1	535.3	657.5	1 189.2	31.8	(NA)	169.6	(NA)	(NA)
1964 ASM[5]---	(NA)	(NA)	(NA)	49.8	291.1	40.3	84.0	210.0	492.1	605.2	1 089.7	44.8	482.0	157.0	(NA)	(NA)
1963 Census--	534	636	418	51.3	288.8	41.5	85.5	206.7	476.9	605.7	1 081.1	36.0	451.3	152.8	85	90
INDUSTRY 2652, SETUP PAPERBOARD BOXES																
1977 Census--	278	312	209	13.1	115.3	11.2	20.6	80.8	211.6	149.9	360.5	8.8	(NA)	48.2	93	87
1976 ASM----	(NA)	(NA)	(NA)	15.5	128.4	13.1	23.7	88.8	236.1	168.6	401.6	(S)	122.7	55.1	(NA)	(NA)
1975 ASM[5]---	(NA)	(NA)	(NA)	14.5	116.3	12.4	21.9	81.7	205.0	141.9	349.8	15.1	125.5	49.7	(NA)	(NA)
1974 ASM[5]---	(NA)	(NA)	(NA)	18.3	129.6	15.8	28.3	92.9	233.2	157.9	386.9	5.6	113.8	55.2	(NA)	(NA)
1973 ASM[5]---	(NA)	(NA)	(NA)	16.0	107.2	13.9	26.6	78.6	200.8	121.9	319.9	5.7	123.0	41.8	(NA)	(NA)
1972 Census--	368	397	269	18.1	111.6	15.5	29.2	80.9	195.9	127.4	321.3	6.4	126.9	41.7	94	86
1971 ASM[5]---	(NA)	(NA)	(NA)	19.7	120.0	16.9	31.4	85.7	200.9	123.3	331.7	8.5	140.7	39.1	(NA)	(NA)
1970 ASM[5]---	(NA)	(NA)	(NA)	22.0	117.9	19.0	35.9	83.7	201.6	123.8	326.3	12.0	133.0	46.6	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	21.5	104.0	18.7	36.3	76.4	159.1	122.1	282.3	3.7	101.3	35.2	(NA)	(NA)
1968 ASM[5]---	(NA)	(NA)	(NA)	21.3	105.8	18.4	36.0	78.9	166.5	134.8	298.6	5.6	103.0	34.5	(NA)	(NA)
1967 Census--	418	454	295	21.1	100.4	18.3	35.4	73.3	160.2	122.7	282.4	6.1	97.8	31.2	92	87
1966 ASM----	(NA)	(NA)	(NA)	20.9	94.4	18.1	34.6	69.6	131.6	124.4	256.6	7.0	(NA)	29.7	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	21.4	88.6	18.7	34.7	65.6	156.0	114.4	270.7	5.7	(NA)	26.3	(NA)	(NA)
1964 ASM[5]---	(NA)	(NA)	(NA)	20.1	86.0	17.3	35.4	64.0	134.9	100.6	236.7	4.7	109.8	24.8	(NA)	(NA)
1963 Census--	474	503	317	20.5	82.2	17.7	34.5	61.5	131.7	95.5	225.8	5.0	106.8	26.8	91	87
INDUSTRY 2653, CORRUGATED AND SOLID FIBER BOXES																
1977 Census--	863	1 472	1 034	101.5	1 374.8	73.5	146.5	867.0	2 704.1	4 660.7	7 351.1	243.3	(NA)	664.8	99	99
1976 ASM----	(NA)	(NA)	(NA)	94.9	1 191.3	69.3	136.4	755.5	2 490.0	4 209.2	6 681.8	185.1	2 338.6	630.7	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	89.4	1 037.4	64.1	124.1	637.6	2 230.4	3 593.2	5 820.6	207.9	2 215.0	580.3	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	103.0	1 057.9	76.2	145.2	662.2	2 561.7	3 465.2	6 014.6	200.9	1 876.9	569.0	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	109.7	1 057.9	82.6	168.9	694.2	2 213.2	3 020.2	5 229.6	125.0	1 880.6	387.9	(NA)	(NA)
1972 Census--	709	1 265	959	107.9	976.3	80.6	165.9	643.0	1 736.9	2 573.4	4 308.8	101.5	1 819.3	349.7	98	99
1971 ASM----	(NA)	(NA)	(NA)	102.7	868.3	76.1	152.9	558.1	1 472.6	2 199.4	3 667.7	87.5	1 606.3	318.4	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	104.7	830.3	78.1	156.8	537.5	1 418.3	2 106.7	3 545.0	108.9	1 591.3	319.8	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	105.6	803.3	79.3	167.0	530.7	1 419.2	2 085.0	3 500.1	161.9	1 379.5	309.8	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	100.7	727.3	76.0	159.9	481.8	1 308.4	1 928.3	3 230.5	135.6	1 253.9	269.7	(NA)	(NA)
1967 Census--	568	1 071	803	97.1	656.0	73.0	152.5	435.0	1 130.0	1 830.4	2 959.6	127.7	1 147.3	258.0	98	98
1966 ASM----	(NA)	(NA)	(NA)	96.1	635.3	73.3	156.9	428.4	1 091.2	1 805.5	2 891.2	117.2	(NA)	262.2	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	90.5	578.3	67.6	147.3	388.8	933.1	1 626.1	2 558.6	93.6	(NA)	234.6	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	86.4	534.0	64.7	140.1	355.3	831.3	1 515.7	2 345.5	71.6	827.5	217.8	(NA)	(NA)
1963 Census--	534	923	651	83.2	485.6	62.8	132.3	323.8	804.0	1 367.7	2 166.1	54.1	764.1	210.4	97	96
INDUSTRY 2654, SANITARY FOOD CONTAINERS																
1977 Census--	122	193	138	28.7	336.7	22.7	43.5	228.2	836.8	1 226.6	2 048.4	52.4	(NA)	345.5	87	86
1976 ASM----	(NA)	(NA)	(NA)	29.7	322.9	24.0	46.0	227.7	849.8	1 151.5	1 982.3	53.8	711.1	324.2	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	28.3	284.1	22.1	42.1	204.2	718.9	1 054.7	1 774.7	29.6	673.5	303.7	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	31.6	288.8	25.0	49.2	210.0	733.0	938.1	1 652.0	44.5	677.2	318.0	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	34.5	288.0	27.4	53.7	210.0	646.1	802.1	1 448.1	38.0	715.0	256.5	(NA)	(NA)
1972 Census--	160	251	193	35.1	277.7	27.9	56.7	203.0	659.8	767.1	1 419.7	42.3	691.5	234.2	91	87
1971 ASM----	(NA)	(NA)	(NA)	31.4	236.2	24.1	49.4	172.0	583.7	677.3	1 256.3	33.8	613.5	215.6	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	33.9	242.2	26.5	54.8	180.2	557.8	659.8	1 214.4	39.8	614.8	207.3	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	34.7	228.0	28.1	57.4	170.0	547.1	634.4	1 170.7	54.2	599.3	199.9	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	34.1	215.7	27.4	57.9	160.2	532.3	612.8	1 133.0	32.5	528.1	179.7	(NA)	(NA)
1967 Census--	144	244	184	35.3	213.8	28.5	60.2	157.8	506.1	595.3	1 093.9	48.1	532.3	170.3	92	86
1966 ASM----	(NA)	(NA)	(NA)	31.8	193.0	25.1	53.3	138.5	426.2	548.2	964.1	36.5	(NA)	161.8	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	31.8	185.2	24.9	52.6	129.5	399.2	516.2	911.4	34.7	(NA)	146.3	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	32.3	189.1	25.3	53.7	210.0	405.2	510.1	916.1	31.4	427.7	140.4	(NA)	(NA)
1963 Census--	98	188	144	32.9	182.7	25.9	53.4	129.2	402.2	513.0	905.9	37.9	407.4	143.2	92	92

See footnotes at end of table.

Table 1a. Historical Statistics for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year[1]	Companies[2] (no.)	All establishments: Total (no.)	All establishments: With 20 employees or more (no.)	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Expenditures and assets: New capital expenditures (million dollars)	Expenditures and assets: Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Ratios: Specialization (percent)	Ratios: Coverage (percent)
	INDUSTRY 2655, FIBER CANS, DRUMS, AND SIMILAR PRODUCTS															
1977 Census--	166	309	195	16.1	197.3	13.4	26.7	147.6	406.9	606.7	1 011.1	26.7	(NA)	119.2	93	89
1976 ASM----	(NA)	(NA)	(NA)	16.6	180.4	13.6	26.9	133.0	384.4	554.7	935.5	26.6	277.4	107.5	(NA)	(NA)
1975 ASM----	(NA)	(NA)	(NA)	16.9	166.8	13.6	26.8	122.6	347.3	488.2	837.3	27.5	279.3	105.5	(NA)	(NA)
1974 ASM----	(NA)	(NA)	(NA)	19.6	177.0	15.8	31.5	131.6	375.6	459.9	828.4	30.5	255.0	118.2	(NA)	(NA)
1973 ASM----	(NA)	(NA)	(NA)	18.2	162.5	15.2	31.4	121.4	311.3	363.6	673.2	16.8	227.0	79.3	(NA)	(NA)
1972 Census--	171	282	182	17.3	143.3	14.4	29.6	106.1	266.4	303.6	568.0	17.9	216.9	59.6	95	87
1971 ASM----	(NA)	(NA)	(NA)	16.2	127.8	13.5	28.6	95.2	224.3	268.9	495.2	16.4	193.5	54.4	(NA)	(NA)
1970 ASM----	(NA)	(NA)	(NA)	16.5	119.2	13.8	28.5	89.2	216.6	249.8	464.6	16.1	182.1	51.5	(NA)	(NA)
1969 ASM----	(NA)	(NA)	(NA)	16.4	115.2	13.5	29.0	85.4	215.2	230.3	445.1	16.8	158.4	40.5	(NA)	(NA)
1968 ASM----	(NA)	(NA)	(NA)	16.2	108.4	13.5	29.1	81.3	204.9	218.5	421.5	13.6	146.6	37.6	(NA)	(NA)
1967 Census--	165	268	160	15.7	93.7	13.3	27.9	72.9	181.1	203.0	385.2	13.3	141.8	36.8	96	85
1966 ASM----	(NA)	(NA)	(NA)	15.6	91.4	13.5	27.9	71.8	168.2	186.3	353.0	50.3	(NA)	39.4	(NA)	(NA)
1965 ASM----	(NA)	(NA)	(NA)	14.6	81.5	12.6	25.3	63.0	153.2	164.3	315.3	12.9	(NA)	35.8	(NA)	(NA)
1964 ASM----	(NA)	(NA)	(NA)	13.3	71.3	11.1	22.9	55.1	134.4	144.4	278.5	7.9	104.1	25.6	(NA)	(NA)
1963 Census--	166	246	137	13.2	67.5	11.2	22.8	50.3	126.2	134.2	260.3	7.7	95.2	25.4	95	80

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. r Revised. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. II, table 1 of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

[4]Data for 1967 and 1963 were derived from Table 8, General Statistics for Establishments by Industry Specialization and Primary Product Class Specialization, in vol. II of the 1967 and 1963 Censuses of Manufactures. Separate data for other years are not available.

[5]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

[6]Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[7]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[8]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[9]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[10]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2651, FOLDING PAPERBOARD BOXES											
1977 Census--	12 937	(NA)	80	2 003	5.71	56	79	(NA)	25 456	50	15.84
1976 ASM----	12 278	21 108	79	2 052	5.35	58	80	38	24 009	51	14.74
1975 ASM----	11 355	18 778	78	2 023	4.93	55	78	36	22 185	51	13.95
1974 ASM----	10 252	15 469	79	2 000	4.49	54	78	35	20 756	49	12.99
1973 ASM----	9 348	14 004	80	2 008	4.17	51	77	38	18 222	51	11.23
1972 Census--	8 788	13 944	80	2 010	3.89	51	78	42	16 328	53	10.07
1971 ASM----	8 164	12 414	79	2 011	3.60	51	78	40	14 817	55	9.21
1970 ASM----	7 589	12 761	80	2 017	3.37	51	78	44	13 650	55	8.42
1969 ASM----	7 188	10 910	81	2 057	3.08	52	79	40	12 958	55	7.76
1968 ASM----	6 958	10 676	81	2 071	2.97	52	77	39	13 024	53	7.75
1967 Census--	6 543	9 904	80	2 078	2.78	54	80	40	11 423	57	6.85
1966 ASM----	6 200	(NA)	81	2 082	2.63	55	81	(NA)	10 779	57	6.41
1965 ASM----	6 023	(NA)	80	2 091	2.57	55	81	(NA)	10 374	58	6.15
1964 ASM----	5 845	9 678	80	2 084	2.50	55	82	44	9 881	59	5.85
1963 Census--	5 629	8 797	80	2 060	2.42	56	82	41	9 296	60	5.57
INDUSTRY 2652, SETUP PAPERBOARD BOXES											
1977 Census--	8 785	(NA)	85	1 845	3.92	41	73	(NA)	16 131	54	10.27
1976 ASM----	8 283	7 916	84	1 809	3.74	41	73	30	15 232	54	9.98
1975 ASM----	8 020	8 655	85	1 766	3.73	40	73	35	14 137	56	9.36
1974 ASM----	7 081	6 218	86	1 791	3.28	40	74	29	12 743	55	8.24
1973 ASM----	6 700	7 687	86	1 913	2.95	38	71	38	12 550	53	7.54
1972 Census--	6 165	7 011	85	1 883	2.77	39	74	39	10 823	56	6.70
1971 ASM----	6 091	7 142	85	1 857	2.72	37	73	42	10 197	59	6.39
1970 ASM----	5 359	6 045	86	1 889	2.33	37	74	40	9 163	58	5.61
1969 ASM----	4 837	4 711	86	1 941	2.10	43	80	35	7 400	65	4.38
1968 ASM----	4 967	4 835	86	1 956	2.19	45	80	34	7 816	63	4.62
1967 Census--	4 758	4 635	85	1 934	2.07	43	79	34	7 592	62	4.52
1966 ASM----	4 516	(NA)	86	1 911	2.01	48	85	(NA)	6 296	71	3.80
1965 ASM----	4 140	(NA)	87	1 855	1.89	42	74	(NA)	7 289	56	4.49
1964 ASM----	4 278	5 462	86	2 046	1.80	42	78	46	6 711	63	3.81
1963 Census--	4 009	5 209	86	1 949	1.78	42	78	47	6 424	62	3.81
INDUSTRY 2653, CORRUGATED AND SOLID FIBER BOXES											
1977 Census--	13 540	(NA)	72	1 993	5.91	63	82	(NA)	26 631	50	18.45
1976 ASM----	12 553	24 642	73	1 968	5.53	62	80	34	26 238	47	18.25
1975 ASM----	11 604	24 776	71	1 936	5.13	61	79	38	24 948	46	17.97
1974 ASM----	10 270	18 222	73	1 905	4.56	57	75	31	24 870	41	17.64
1973 ASM----	9 643	17 143	75	2 044	4.11	57	77	35	20 175	47	13.10
1972 Census--	9 048	16 860	74	2 058	3.87	59	82	42	16 097	56	10.46
1971 ASM----	8 454	15 640	74	2 009	3.65	59	83	43	14 338	58	9.63
1970 ASM----	7 930	15 198	74	2 007	3.42	59	82	44	13 546	58	9.04
1969 ASM----	7 607	13 063	75	2 105	3.17	59	82	39	13 439	56	8.49
1968 ASM----	7 222	12 451	75	2 103	3.01	59	82	38	12 993	55	8.18
1967 Census--	6 755	11 815	75	2 089	2.85	61	84	38	11 637	58	7.40
1966 ASM----	6 610	(NA)	76	2 140	2.73	62	84	(NA)	11 354	58	6.95
1965 ASM----	6 390	(NA)	74	2 178	2.63	63	86	(NA)	10 310	61	6.33
1964 ASM----	6 180	9 577	74	2 165	2.53	64	87	35	9 621	64	5.93
1963 Census--	5 836	9 183	75	2 106	2.44	63	85	35	9 663	60	6.07
INDUSTRY 2654, SANITARY FOOD CONTAINERS											
1977 Census--	11 728	(NA)	78	1 919	5.24	59	76	(NA)	29 153	40	19.23
1976 ASM----	10 872	23 942	80	1 916	4.95	58	74	35	28 612	37	18.47
1975 ASM----	10 038	23 798	78	1 904	4.85	59	75	37	25 402	39	17.07
1974 ASM----	9 139	21 430	79	1 968	4.26	56	74	40	23 196	39	14.89
1973 ASM----	8 347	20 724	79	1 959	3.91	55	75	49	18 727	44	12.03
1972 Census--	7 911	19 700	79	2 032	3.58	54	73	48	18 797	42	11.63
1971 ASM----	7 522	19 538	76	2 049	3.48	53	72	48	18 589	40	11.81
1970 ASM----	7 144	18 135	78	2 067	3.28	54	74	50	16 454	43	10.17
1969 ASM----	6 570	17 270	80	2 042	2.96	54	73	51	15 766	41	9.53
1968 ASM----	6 325	15 486	80	2 113	2.76	54	73	46	15 609	40	9.19
1967 Census--	6 056	15 079	80	2 112	2.62	54	73	48	14 337	42	8.40
1966 ASM----	5 068	(NA)	78	2 123	2.59	56	76	(NA)	13 402	45	7.99
1965 ASM----	5 823	(NA)	78	2 112	2.46	56	76	(NA)	12 553	46	7.58
1964 ASM----	5 854	13 241	78	2 122	3.91	55	76	46	12 544	46	7.54
1963 Census--	5 553	12 382	78	2 061	2.41	56	76	44	12 224	45	7.53

See footnotes at end of table.

Table 1b. Selected Operating Ratios for the Industry: 1977 and Earlier Years—Con.

[For explanation of terms, see appendix A]

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	INDUSTRY 2655, FIBER CANS, DRUMS, AND SIMILAR PRODUCTS										
1977 Census--	12 255	(NA)	83	1 990	5.53	59	79	(NA)	25 277	48	15.26
1976 ASM----	10 867	16 710	81	1 977	4.94	59	78	29	23 156	46	14.28
1975 ASM----	9 869	16 526	80	1 970	4.57	58	78	33	20 550	48	12.95
1974 ASM----	9 030	13 010	80	1 993	4.17	55	76	30	19 163	47	11.92
1973 ASM----	8 928	12 472	83	2 065	3.86	54	78	33	17 104	52	9.91
1972 Census--	8 283	12 537	83	2 055	3.58	53	78	38	15 398	53	9.00
1971 ASM----	7 888	11 944	83	2 118	3.32	54	80	39	13 845	56	7.84
1970 ASM----	7 224	11 036	83	2 065	3.12	53	79	39	13 127	55	7.60
1969 ASM----	7 024	9 658	82	2 148	2.94	51	77	35	13 121	53	7.42
1968 ASM----	6 691	9 049	83	2 155	2.79	51	77	34	12 648	52	7.04
1967 Census--	5 968	9 031	84	2 097	2.61	52	77	36	11 535	51	6.49
1966 ASM----	5 858	(NA)	86	2 066	2.57	52	78	(NA)	10 782	54	6.02
1965 ASM----	5 582	(NA)	86	2 007	2.49	52	77	(NA)	10 493	53	6.05
1964 ASM----	5 360	7 827	83	2 063	2.40	51	77	37	10 105	53	5.86
1963 Census--	5 113	7 212	84	2 035	2.20	51	77	36	9 560	53	5.53

Note: For qualifications to data, see footnotes on table 1a.
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2651, FOLDING PAPERBOARD BOXES													
United States	-	**574**	**374**	**44.7**	**577.8**	**35.8**	**71.8**	**409.8**	**1 136.8**	**1 460.2**	**2 579.0**	**89.8**	**45.3**	**739.7**
New England Division:													
Massachusetts	-	27	21	2.1	23.9	1.6	3.4	17.0	45.7	53.2	99.1	(D)	2.3	34.4
Connecticut	-	24	17	1.5	18.4	1.1	2.2	11.8	34.3	31.0	65.5	2.0	1.7	26.9
Middle Atlantic Division:														
New York	-	81	49	5.7	72.6	4.7	9.0	51.5	142.2	159.1	300.0	5.6	5.2	88.7
New Jersey	-	40	27	2.9	36.0	2.3	4.5	25.3	66.3	63.7	132.3	4.9	2.8	46.6
Pennsylvania	-	50	28	2.9	36.5	2.4	4.7	25.1	67.6	90.3	157.5	4.0	3.6	49.3
East North Central Division:														
Ohio	-	47	34	5.0	62.9	4.1	8.2	48.1	122.2	159.5	277.1	8.0	4.7	80.0
Indiana	-	17	11	1.4	16.3	1.1	2.2	11.5	33.1	34.6	66.8	3.4	1.6	25.3
Illinois	-	51	33	4.2	58.8	3.4	7.1	42.2	107.2	162.7	268.4	5.1	4.3	70.9
Michigan	-	18	13	2.3	33.4	1.7	3.4	23.2	62.6	88.8	149.1	4.1	1.6	28.4
Wisconsin	-	11	9	1.0	11.5	0.8	1.4	7.7	25.0	22.7	47.4	3.0	1.0	17.9
West North Central Division:														
Minnesota	-	12	8	0.9	13.3	0.7	1.4	9.7	28.9	37.6	65.8	3.1	1.1	19.2
Iowa	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Missouri	-	14	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
South Atlantic Division:														
Delaware	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Maryland	-	9	8	1.5	16.9	1.3	2.3	12.3	33.8	38.6	69.6	4.8	EE	(D)
Virginia	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	13.4
North Carolina	-	20	14	1.0	12.9	0.8	1.7	8.6	28.9	36.2	64.3	1.8	0.9	14.3
South Carolina	E1	3	2	0.2	1.6	0.2	0.3	1.2	2.4	3.7	5.8	-	(NA)	(NA)
Georgia	-	9	8	1.7	25.1	1.2	2.5	15.3	45.3	78.3	123.4	3.4	1.8	36.8
Florida	E2	8	4	0.3	3.2	0.3	0.6	2.3	6.2	6.3	12.6	0.2	0.7	8.4
East South Central Division:														
Kentucky	-	5	4	0.3	4.6	0.3	0.5	3.2	9.3	15.4	24.7	(D)	BB	(D)
Tennessee	-	14	11	1.0	11.0	0.8	1.7	8.4	28.3	39.1	67.1	2.1	1.1	16.0
West South Central Division:														
Arkansas	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Louisiana	-	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Texas	-	17	8	0.8	9.4	0.6	1.3	6.4	22.0	27.0	48.7	3.3	CC	(D)
Mountain Division:														
Colorado	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
Washington	-	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
California	E1	44	26	3.5	51.7	2.8	5.7	37.3	101.8	118.6	218.8	13.6	3.6	64.9
INDUSTRY 2652, SETUP PAPERBOARD BOXES														
United States	E1	**312**	**209**	**13.1**	**115.3**	**11.2**	**20.6**	**80.8**	**211.6**	**149.9**	**360.5**	**8.8**	**18.1**	**195.9**
New England Division:														
Massachusetts	-	29	20	1.4	13.3	1.2	2.1	8.8	32.3	17.3	49.5	0.5	2.0	25.2
Rhode Island	E1	14	10	0.6	4.1	0.5	0.9	2.8	7.1	4.1	11.0	0.4	0.7	5.4
Connecticut	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	2.7
Middle Atlantic Division:														
New York	E2	62	39	2.9	24.7	2.5	4.5	17.5	41.8	27.2	69.2	1.6	4.1	45.9
New Jersey	-	18	14	0.8	8.1	0.7	1.3	5.9	13.3	10.0	23.2	0.3	1.1	14.9
Pennsylvania	E1	28	23	1.2	10.8	1.1	2.0	8.1	17.2	14.3	31.2	0.8	2.1	19.7
East North Central Division:														
Ohio	-	12	9	0.4	3.8	0.4	0.7	2.7	7.0	4.0	11.1	0.3	0.5	4.7
Indiana	E7	4	3	0.3	2.2	0.2	0.4	1.3	3.8	2.0	5.8	(D)	BB	(D)
Illinois	E1	21	13	0.9	8.1	0.8	1.5	5.8	13.8	9.4	23.1	0.4	1.1	10.2
Michigan	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.1
Wisconsin	-	6	6	0.3	3.1	0.3	0.5	2.3	4.3	5.1	9.5	(D)	BB	(D)
West North Central Division:														
Minnesota	E7	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Missouri	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Atlantic Division:														
Virginia	E1	6	3	0.2	1.5	0.2	0.4	1.1	3.0	2.7	5.7	(D)	AA	(D)
North Carolina	-	16	13	0.9	8.2	0.8	1.5	5.8	13.7	13.5	27.0	0.3	1.1	13.8
Georgia	-	6	5	0.2	1.2	0.1	0.2	0.8	2.1	1.7	3.7	(Z)	0.2	1.8
Florida	-	5	4	0.2	1.5	0.2	0.3	1.0	2.4	1.2	3.8	0.1	0.3	2.8
East South Central Division:														
Tennessee	-	7	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West South Central Division:														
Texas	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Pacific Division:														
California	-	19	10	0.5	5.0	0.4	0.8	3.4	9.4	7.4	16.7	0.8	1.0	11.3

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2653, CORRUGATED AND SOLID FIBER BOXES														
United States	-	**1 472**	**1 034**	**101.5**	**1 374.8**	**73.5**	**146.5**	**867.0**	**2 704.1**	**4 660.7**	**7 351.1**	**243.3**	**107.9**	**1 736.9**
New England Division:														
Maine	-	5	4	0.3	3.4	0.2	0.5	2.2	7.3	14.9	22.2	(D)	0.3	3.8
New Hampshire	-	6	3	0.3	3.0	0.2	0.4	2.0	5.6	9.8	15.4	0.2	AA	(D)
Massachusetts	-	57	35	3.8	47.0	2.7	5.1	28.0	86.8	136.2	222.7	5.4	4.2	63.4
Rhode Island	-	8	3	0.3	3.2	0.2	0.4	1.9	8.6	8.9	16.1	0.2	AA	(D)
Connecticut	-	25	16	1.4	18.9	1.0	1.9	10.5	35.7	55.6	91.1	4.7	1.4	20.5
Middle Atlantic Division:														
New York	E1	103	70	6.6	87.5	4.8	9.6	55.3	162.6	234.6	396.6	11.7	7.5	123.3
New Jersey	-	93	57	5.9	86.6	4.3	8.6	52.7	154.3	231.5	385.4	14.1	7.3	119.2
Pennsylvania	-	81	61	6.6	88.4	4.8	9.6	55.6	160.3	263.9	424.0	12.9	7.6	117.0
East North Central Division:														
Ohio	-	101	70	7.4	100.8	5.5	10.9	66.2	190.5	324.3	515.1	14.1	8.6	134.7
Indiana	-	56	41	3.9	50.2	2.8	5.5	31.7	106.3	157.2	263.0	4.2	4.0	59.8
Illinois	-	130	96	9.3	127.3	6.6	13.1	75.9	242.1	403.5	644.5	21.2	10.0	158.8
Michigan	-	88	61	4.5	62.7	3.3	6.5	38.0	132.2	208.1	339.4	11.4	4.8	77.2
Wisconsin	-	43	30	3.7	51.3	2.6	5.3	31.9	107.1	162.7	268.9	14.0	3.9	66.0
West North Central Division:														
Minnesota	-	19	17	1.9	28.8	1.3	2.6	17.0	64.6	96.5	161.1	2.9	2.2	44.3
Iowa	-	14	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Missouri	-	48	32	2.4	32.2	1.7	3.2	19.0	62.0	117.7	178.9	3.2	2.7	38.2
Nebraska	-	9	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Kansas	-	6	6	1.0	13.8	0.7	1.4	8.8	26.4	43.6	69.6	(D)	EE	(D)
South Atlantic Division:														
Delaware	-	4	4	0.3	4.3	0.2	0.5	2.8	7.9	18.5	26.1	(D)	BB	(D)
Maryland	-	22	13	1.1	14.6	0.8	1.6	9.5	24.5	47.8	72.0	2.1	1.8	26.3
Virginia	-	25	20	2.2	26.6	1.7	3.2	16.9	53.9	93.2	146.9	(D)	2.2	33.1
West Virginia	-	8	7	0.5	5.6	0.4	0.8	3.8	9.4	13.3	22.7	0.4	CC	(D)
North Carolina	-	34	28	2.9	35.7	2.1	4.1	21.8	75.8	139.7	214.8	8.5	3.2	44.3
South Carolina	E1	17	14	1.6	19.0	1.2	2.3	12.4	37.0	75.6	112.3	2.2	1.5	22.7
Georgia	-	42	26	2.8	37.0	2.1	4.3	24.5	73.1	138.3	211.1	5.8	3.0	45.4
Florida	-	35	19	2.2	28.3	1.5	3.2	18.0	57.1	109.5	166.7	6.7	2.5	36.6
East South Central Division:														
Kentucky	-	15	11	1.2	14.7	0.8	1.6	9.5	31.7	49.9	80.8	3.6	1.1	15.8
Tennessee	-	39	29	2.9	36.5	2.1	4.4	23.2	72.3	137.4	208.7	5.8	3.2	43.9
Alabama	E2	18	11	1.0	10.6	0.7	1.4	6.9	28.3	40.9	68.9	4.3	0.8	11.2
Mississippi	-	13	11	1.0	12.3	0.8	1.5	7.9	24.0	46.2	70.2	3.4	0.9	13.7
West South Central Division:														
Arkansas	-	18	15	1.3	16.7	1.0	2.0	10.8	35.3	63.9	98.6	0.6	EE	(D)
Louisiana	-	8	8	1.2	17.0	0.9	1.9	11.9	32.0	58.7	89.9	(D)	1.5	25.6
Oklahoma	-	9	6	0.6	7.2	0.4	0.8	5.0	17.7	28.3	45.9	1.2	CC	(D)
Texas	-	77	52	4.9	59.8	3.5	7.3	38.0	118.9	230.0	347.8	25.5	4.3	66.0
Mountain Division:														
Idaho	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Colorado	-	13	8	0.7	10.1	0.5	1.1	6.0	21.5	37.7	59.2	1.2	CC	(D)
Arizona	-	6	3	0.2	3.2	0.2	0.3	1.9	8.6	12.8	21.4	(D)	AA	(D)
Pacific Division:														
Washington	-	17	14	1.7	27.5	1.2	2.4	18.8	49.0	99.8	148.5	3.0	EE	(D)
Oregon	-	4	4	0.3	5.1	0.2	0.4	3.1	12.0	19.9	31.9	1.4	BB	(D)
California	-	136	98	9.0	143.1	6.6	13.1	95.9	290.7	593.9	883.5	31.1	8.3	162.7
INDUSTRY 2654, SANITARY FOOD CONTAINERS														
United States	-	**193**	**138**	**28.7**	**336.7**	**22.7**	**43.5**	**228.2**	**836.8**	**1 226.6**	**2 048.4**	**52.4**	**35.1**	**659.8**
New England Division:														
New Hampshire	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Vermont	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Massachusetts	-	13	8	1.0	10.1	0.9	1.5	7.3	26.7	27.7	53.9	1.0	0.9	14.6
Rhode Island	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	-	18	7	1.1	14.0	0.9	2.0	9.8	26.4	35.5	61.9	1.1	2.2	28.4
New Jersey	-	9	6	1.6	17.3	1.2	2.4	12.3	43.7	71.6	116.2	2.3	2.0	36.5
Pennsylvania	-	13	10	2.1	24.7	1.7	3.2	18.6	55.3	80.7	133.3	2.5	2.6	49.3
East North Central Division:														
Ohio	-	10	7	0.7	7.9	0.6	1.0	5.7	19.8	45.2	64.3	2.6	0.9	15.4
Indiana	-	5	4	0.5	4.6	0.4	0.7	3.2	12.0	35.0	46.8	0.6	0.5	9.5
Illinois	-	14	9	3.0	36.2	2.8	5.5	24.5	82.2	118.4	198.4	9.3	3.9	74.3
Michigan	-	5	4	0.4	5.7	0.3	0.6	3.6	16.4	42.7	58.8	0.2	2.4	53.3
Wisconsin	-	5	4	1.6	22.2	1.3	2.5	17.3	43.1	61.1	103.4	2.7	1.7	34.7
West North Central Division:														
Iowa	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Missouri	-	4	4	2.0	22.1	1.6	2.7	16.8	49.2	54.3	102.0	2.1	2.3	38.7
Nebraska	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Kansas	-	2	2	0.5	6.4	0.4	0.8	4.6	13.2	27.6	41.1	(D)	BB	(D)
South Atlantic Division:														
Maryland	-	7	6	3.9	41.3	2.1	3.6	13.5	133.3	117.7	249.0	11.9	2.9	45.0
North Carolina	-	5	5	0.6	6.8	0.5	1.1	5.3	18.0	27.6	45.3	0.6	0.4	7.9
South Carolina	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Georgia	-	11	8	1.2	14.4	1.0	1.8	10.9	41.5	58.9	99.3	2.8	1.3	30.1
Florida	-	4	3	0.3	3.9	0.3	0.5	2.0	9.8	20.4	29.9	0.3	0.4	9.7

See footnotes at end of table.

Table 2. Industry Statistics by Geographic Area: 1977 and 1972—Con.

[For explanation of terms, see appendix A]

Geographic area	1977											1972	
		All establishments		All employees		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
INDUSTRY 2654, SANITARY FOOD CONTAINERS—Con.														
East South Central Division:														
Kentucky	-	5	5	0.7	8.5	0.6	1.3	6.7	24.9	23.8	48.0	0.9	1.1	29.5
Alabama	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West South Central Division:														
Arkansas	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	20.6
Louisiana	-	3	3	0.3	3.5	0.2	0.5	2.4	10.3	14.9	25.1	0.1	AA	(D)
Texas	-	6	5	0.9	8.9	0.8	1.5	6.3	22.7	39.9	62.6	2.0	1.0	20.6
Pacific Division:														
Washington	-	3	3	0.3	4.2	0.2	0.4	3.1	10.6	24.9	35.2	0.6	BB	(D)
California	-	22	17	2.5	33.3	2.0	3.8	24.7	82.4	134.6	216.1	2.3	2.8	57.6
INDUSTRY 2655, FIBER CANS, DRUMS, AND SIMILAR PRODUCTS														
United States	-	**309**	**195**	**16.1**	**197.3**	**13.4**	**26.7**	**147.6**	**406.9**	**606.7**	**1 011.1**	**26.7**	**17.3**	**266.4**
New England Division:														
Massachusetts	-	16	11	0.6	6.3	0.5	0.9	4.5	14.1	14.3	28.3	0.5	0.6	10.1
Rhode Island	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Middle Atlantic Division:														
New York	-	17	7	0.9	10.3	0.7	1.5	7.8	19.2	18.6	37.7	0.9	1.0	12.9
New Jersey	-	30	23	1.5	16.9	1.2	2.5	13.0	31.9	45.1	76.8	2.0	1.6	25.7
Pennsylvania	-	19	13	1.3	15.8	1.1	2.1	12.6	32.8	54.6	87.4	1.4	1.1	20.2
East North Central Division:														
Ohio	-	25	18	1.5	18.2	1.3	2.5	14.1	34.9	52.2	86.4	3.7	1.4	21.1
Indiana	-	9	7	0.5	6.3	0.4	0.7	4.5	16.0	22.9	38.9	(D)	CC	(D)
Illinois	-	15	13	0.7	9.6	0.6	1.3	7.5	19.0	31.9	50.9	0.7	1.1	15.9
Michigan	-	10	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	5.3
Wisconsin	-	9	7	0.7	8.4	0.5	1.1	6.4	16.8	21.8	38.7	(D)	CC	(D)
West North Central Division:														
Missouri	-	4	4	0.5	6.5	0.4	0.8	5.0	15.1	23.0	38.2	(D)	BB	(D)
Kansas	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
South Atlantic Division:														
Maryland	E1	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Virginia	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.0
North Carolina	-	21	13	0.8	8.5	0.7	1.3	6.0	18.8	23.6	42.5	1.5	0.4	6.5
South Carolina	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Georgia	-	19	10	0.9	10.1	0.7	1.5	7.7	23.9	37.3	61.1	1.2	0.9	13.9
Florida	-	12	7	0.9	10.9	0.8	1.6	8.8	28.0	59.0	85.8	2.8	0.5	13.4
East South Central Division:														
Tennessee	-	9	8	0.5	5.9	0.4	0.8	4.8	15.5	23.7	38.8	0.6	0.8	10.2
Alabama	-	7	3	0.2	1.7	0.2	0.3	1.2	3.5	5.2	8.7	0.1	0.5	2.9
West South Central Division:														
Texas	-	14	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	7.8
Pacific Division:														
California	-	20	12	0.9	12.1	0.8	1.6	9.4	29.9	47.5	76.9	2.5	0.8	15.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some producing States are withheld to avoid disclosing figures for individual companies. However, for such States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3a. Summary Statistics for the Industry: 1977

[For explanation of terms, see appendix A]

Item	Unit of measure	Folding paperboard boxes (SIC 2651)	Setup paperboard boxes (SIC 2652)	Corrugated and solid fiber boxes (SIC 2653)	Sanitary food containers (SIC 2654)	Fiber cans, drums, and similar products (SIC 2655)
Primary product specialization ratio[1]	percent	87	93	99	87	93
Coverage ratio[2]	do	91	87	99	86	89
All establishments	number	574	312	1 472	193	309
With 1 to 19 employees	do	200	103	438	55	114
With 20 to 99 employees	do	220	180	578	55	155
With 100 employees or more	do	154	29	456	83	40
All employees, average for year	1,000	44.7	13.1	101.5	28.7	16.1
Payroll for year, all employees	mil. dol.	577.8	115.3	1 374.8	336.7	197.3
Production workers:						
Average for year	1,000	35.8	11.2	73.5	22.7	13.4
March	do	35.4	10.6	71.9	22.2	13.4
May	do	36.1	10.9	73.3	23.1	13.4
August	do	35.7	11.4	74.0	22.7	13.5
November	do	36.0	11.7	74.6	22.8	13.3
Hours	millions	71.8	20.6	146.5	43.5	26.7
January to March	do	17.8	4.8	35.5	10.6	6.5
April to June	do	18.0	5.0	37.0	11.2	6.9
July to September	do	17.9	5.2	37.0	10.9	6.8
October to December	do	18.1	5.6	37.0	10.8	6.7
Wages	mil. dol.	409.8	80.8	867.0	228.2	147.6
Cost of materials, etc.	do	1 460.2	149.9	4 660.7	1 226.6	606.7
Materials, parts, containers, etc., consumed	do	1 385.2	138.1	4 454.6	1 110.8	589.6
Resales	do	26.8	5.0	75.2	82.5	4.7
Fuels consumed	do	11.6	2.0	62.9	8.9	4.1
Purchased electric energy	do	19.6	2.7	53.9	20.0	7.1
Contract work	do	17.0	2.1	14.1	4.3	1.2
Value of shipments, including resales	do	2 579.0	360.5	7 351.1	2 048.4	1 011.1
Value of resales	do	35.0	6.0	90.5	87.7	9.7
Value added by manufacture	do	1 136.8	211.6	2 704.1	836.8	405.9
Manufacturers' inventories:						
Beginning of year	do	402.2	46.4	668.4	320.9	111.1
Finished products	do	188.1	19.2	113.3	159.1	20.2
Work in process	do	100.7	7.8	44.6	27.1	15.0
Materials, supplies, fuel, etc.	do	113.4	19.5	510.5	134.7	75.9
End of year	do	421.8	48.2	664.8	345.5	119.2
Finished products	do	200.3	19.7	125.5	175.1	21.3
Work in process	do	106.6	8.3	46.1	26.2	16.4
Materials, supplies, fuel, etc.	do	114.9	20.3	493.2	144.2	81.4
Capital expenditures for plant and equipment	do	100.0	9.6	263.8	54.9	31.2
New capital expenditures	do	89.8	8.8	243.3	52.4	26.7
New buildings and other structures	do	14.2	2.0	43.1	10.2	4.3
New machinery and equipment	do	75.5	6.8	200.1	42.2	22.4
Used capital expenditures	do	10.3	0.7	20.6	2.5	4.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

[2]Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

[3]Relationships are not meaningful because of predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[4]Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[5]Data for value of shipments represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[6]Data for value of shipments represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[7]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 3b. Supplemental Industry Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix A. For description of annual survey of manufactures (ASM), see appendix B)

Item	Folding paperboard boxes (SIC 2651)		Setup paperboard boxes (SIC 2652)		Corrugated and solid fiber boxes (SIC 2653)		Sanitary food containers (SIC 2654)		Fiber cans, drums, and similar products (SIC 2655)	
	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)	Amount (million dollars)	Standard error of estimate[1] (percent)
Purchased services:										
Cost of purchased services for repair of--										
Buildings and other structures	(5.3)	15	(0.6)	50	10.9	4	2.8	5	0.9	5
Response coverage ratio[2] (percent)	63	(X)	63	(X)	63	(X)	64	(X)	61	(X)
Machinery	19.2	10	(4.6)	67	69.5	4	14.5	3	8.6	3
Response coverage ratio[2] (percent)	65	(X)	79	(X)	63	(D)	61	(X)	68	(X)
Cost of purchased communication services	7.3	10	(1.1)	28	19.9	5	3.6	3	1.7	6
Response coverage ratio[2] (percent)	62	(X)	75	(X)	58	(X)	63	(X)	65	(X)
Rental payments	20.9	7	(6.7)	78	72.6	4	12.2	8	10.5	5
Buildings and other structures	14.2	9	(4.5)	20	28.0	6	5.2	9	5.1	8
Machinery and equipment	(6.7)	10	(2.2)	30	44.6	4	7.0	11	5.5	5
Supplemental labor costs	113.1	2	18.6	5	269.3	1	67.9	1	38.8	2
Legal costs	49.1	2	8.6	6	118.1	1	28.3	1	17.4	2
Voluntary costs	64.0	2	9.9	10	151.3	1	39.6	1	21.4	2
Gross value of depreciable assets:										
Buildings and other structures:										
Beginning of year	187.4	5	(19.4)	25	715.1	2	161.8	3	77.8	4
New capital expenditures	13.6	7	(0.7)	35	44.3	7	9.2	5	4.6	15
Used capital expenditures	(0.5)	20	-	(X)	5.0	11	0.2	1	0.2	1
Retirements	7.3	5	(0.3)	35	(7.8)	18	(0.8)	15	2.6	4
End of year	194.3	5	(19.8)	24	756.7	2	170.4	3	80.0	4
Machinery and equipment:										
Beginning of year	600.3	3	70.6	8	1,622.0	1	519.0	2	196.6	2
New capital expenditures	75.1	5	32.2	6	206.2	4	36.9	3	23.2	8
Automobiles, trucks, etc., for highway use[3]	(2.4)	(A)	(0.5)	(A)	(9.5)	(A)	(0.5)	(A)	(1.1)	(A)
Computers and peripheral data processing equipment[3]	(0.5)	(A)	(Z)	(A)	(1.8)	(A)	(0.7)	(A)	(0.2)	(A)
All other[3]	(60.3)	(A)	(27.1)	(A)	153.7	13	(34.6)	58	(17.6)	(A)
New machinery and equipment, n.s.k.[4]	(12.3)	(A)	(4.6)	(A)	(41.3)	(A)	(1.1)	(A)	(4.3)	(A)
Used capital expenditures	(12.0)	18	(0.4)	45	17.7	9	2.0	1	4.3	2
Retirements	28.3	4	(3.8)	30	51.5	5	15.6	2	11.7	5
End of year	659.1	3	99.4	5	1,794.4	1	542.3	2	212.3	2
Total gross value of depreciable assets:										
Beginning of year	787.7	3	90.0	9	2,337.1	1	680.7	2	274.4	2
New capital expenditures	88.7	5	32.9	7	250.5	4	46.1	3	27.8	8
Used capital expenditures	(12.5)	17	(0.4)	45	22.7	8	2.2	1	4.5	2
Retirements	35.5	4	(4.2)	30	59.3	5	16.4	3	14.3	4
End of year	853.3	3	119.2	7	2,551.1	1	712.7	2	292.3	2
Depreciation charges during 1977	57.6	2	(16.0)	58	152.6	2	38.2	2	17.9	2
Buildings and other structures	8.4	5	(0.8)	30	27.0	3	5.9	3	3.2	7
Machinery and equipment	49.2	2	(15.2)	62	125.6	2	32.2	2	14.6	2

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are shown in table 3a, as well as in this table. The figures in table 3a are census universe totals and may differ from the annual survey of manufactures (ASM) sample estimates shown in this table. The figures in this table represent the best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as the universe figures shown in table 3a.

- Represents zero. (A) Indicates standard errors of 100 percent or more. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable. (Z) Less than 50 thousand dollars.

[1]For a description of the standard error of estimate, see the section "Qualifications of the Data" in appendix B. Figures in parentheses have standard errors of 15 percent or more.

[2]This is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those sample establishments that reported the specific inquiry to the weighted total employment for all sample establishments classified in the industry.

[3]The standard errors for the detailed categories of new machinery and equipment expenditures were not directly calculated. However, the actual figure is not expected to exceed the estimated figure shown.

[4]This category represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories.

Table 4. Industry Statistics by Employment Size of Establishment: 1977

[For explanation of terms, see appendix A]

Industry and employment size class	E[1]	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2651, FOLDING PAPERBOARD BOXES												
Total	-	574	44.7	577.8	35.8	71.8	409.8	1 136.8	1 460.2	2 579.0	89.8	421.8
Establishments with an average of—												
1 to 4 employees	E7	92	0.1	1.7	0.1	0.2	1.2	3.6	4.2	8.5	0.2	1.3
5 to 9 employees	E7	42	0.3	3.6	0.2	0.5	2.6	6.8	9.2	16.0	0.7	2.6
10 to 19 employees	E5	66	0.9	11.9	0.7	1.5	7.8	22.8	26.3	49.3	1.4	7.0
20 to 49 employees	-	116	3.9	48.5	3.1	6.3	33.6	102.0	99.9	201.0	5.6	23.4
50 to 99 employees	-	104	7.3	86.0	5.9	11.9	59.5	172.5	179.9	349.7	15.2	52.9
100 to 249 employees	-	121	18.7	242.4	15.0	30.3	172.6	498.3	604.2	1 096.3	38.3	187.1
250 to 499 employees	-	27	9.3	124.5	7.5	14.8	91.4	232.2	351.8	577.8	22.3	101.0
500 to 999 employees	-	5	(4.2)	(59.2)	(3.2)	(6.3)	(41.1)	(98.6)	(184.8)	(280.4)	(6.1)	(46.4)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	134	0.8	10.1	0.7	1.3	7.1	17.4	23.9	41.3	1.3	7.1
INDUSTRY 2652, SETUP PAPERBOARD BOXES												
Total	E1	312	13.1	115.3	11.2	20.6	80.8	211.6	149.9	360.5	5.8	48.2
Establishments with an average of—												
1 to 4 employees	E9	36	0.1	0.5	0.1	0.1	0.4	0.9	0.5	1.4	0.1	0.2
5 to 9 employees	E6	30	0.2	1.9	0.2	0.3	1.3	3.8	2.7	6.5	0.3	1.0
10 to 19 employees	E2	37	0.5	4.3	0.5	0.8	3.0	8.4	7.7	16.3	0.3	2.2
20 to 49 employees	-	126	4.3	36.3	3.6	6.6	24.4	71.0	47.1	117.8	2.9	14.4
50 to 99 employees	-	54	3.7	33.1	3.1	6.0	23.5	57.3	40.7	97.7	3.1	11.9
100 to 249 employees	E1	28	(4.3)	(39.1)	(3.7)	(6.8)	(28.1)	(70.2)	(51.2)	(120.7)	(2.2)	(18.6)
250 to 499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	63	0.3	2.7	0.3	0.5	1.9	5.5	3.2	8.7	0.3	1.3
INDUSTRY 2653, CORRUGATED AND SOLID FIBER BOXES												
Total	-	1 472	101.5	1 374.8	73.5	146.5	867.0	2 704.1	4 660.7	7 351.1	243.3	554.8
Establishments with an average of—												
1 to 4 employees	E8	161	0.3	3.4	0.2	0.4	2.2	6.8	11.0	18.3	(13.7)	1.6
5 to 9 employees	E7	98	0.7	8.1	0.5	0.9	5.0	15.3	26.6	42.0	(D)	3.7
10 to 19 employees	E6	179	2.5	30.2	1.8	3.6	18.5	60.3	98.9	159.2	(D)	12.9
20 to 49 employees	E1	348	11.3	137.3	8.3	16.3	80.4	291.1	454.4	742.8	22.2	45.4
50 to 99 employees	-	230	17.0	218.2	12.5	24.7	132.0	457.0	758.7	1 212.5	47.2	117.4
100 to 249 employees	-	429	61.7	863.6	44.4	89.1	554.9	1 657.9	2 983.9	4 634.6	147.9	439.8
250 to 499 employees	-	26	(7.9)	(113.9)	(5.7)	(11.5)	(74.0)	(215.7)	(327.1)	(541.7)	(12.3)	(43.9)
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	318	2.6	33.2	2.0	3.8	21.1	60.3	104.8	165.0	4.8	15.4
INDUSTRY 2654, SANITARY FOOD CONTAINERS												
Total	-	193	28.7	336.7	22.7	43.5	228.2	836.8	1 226.6	2 048.4	52.4	345.5
Establishments with an average of—												
1 to 4 employees	E0	11	(Z)	0.2	(Z)	(Z)	0.2	0.5	0.6	1.2	(Z)	0.2
5 to 9 employees	E5	14	0.1	0.9	0.1	0.1	0.6	2.4	2.8	5.1	0.1	1.0
10 to 19 employees	E6	30	0.4	4.7	0.3	0.7	3.1	11.4	16.3	27.7	0.7	4.6
20 to 49 employees	-	25	0.8	9.3	0.7	1.4	6.6	25.5	44.2	69.2	1.7	8.2
50 to 99 employees	-	30	2.2	24.5	1.8	3.5	18.1	75.4	158.6	232.6	3.4	29.7
100 to 249 employees	-	55	8.6	99.8	6.9	13.8	70.2	229.2	478.3	702.5	13.6	104.5
250 to 499 employees	-	19	7.1	82.6	5.7	11.4	61.7	179.9	231.4	409.4	10.1	82.8
500 to 999 employees	-	6	(9.5)	(114.6)	(7.1)	(12.6)	(67.8)	(312.6)	(294.2)	(600.7)	(22.8)	(114.5)
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	38	0.4	4.2	0.3	0.6	3.0	9.7	13.2	22.9	0.7	3.8
INDUSTRY 2655, FIBER CANS, DRUMS, AND SIMILAR PRODUCTS												
Total	-	309	16.1	197.3	13.4	26.7	147.6	406.9	606.7	1 011.1	26.7	119.2
Establishments with an average of—												
1 to 4 employees	E8	46	0.1	1.3	0.1	0.2	0.9	1.5	3.7	6.3	0.2	0.7
5 to 9 employees	E5	27	0.2	2.3	0.2	0.3	1.7	4.6	7.5	12.1	0.3	1.3
10 to 19 employees	E2	41	0.6	6.2	0.5	0.9	4.4	13.6	24.3	37.7	2.9	4.3
20 to 49 employees	-	88	2.9	32.5	2.4	4.7	22.9	75.0	115.9	190.5	3.7	19.9
50 to 99 employees	-	67	4.5	54.0	3.8	7.5	41.5	124.3	185.6	308.9	7.9	36.2
100 to 249 employees	-	34	5.0	59.1	4.2	8.2	45.7	120.5	191.8	311.6	9.1	39.1
250 to 499 employees	-	5	(2.9)	(41.9)	(2.4)	(4.7)	(30.5)	(67.5)	(78.0)	(144.1)	(2.8)	(17.7)
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records[2]	E0	70	0.4	5.1	0.4	0.7	3.8	8.5	12.8	21.2	0.6	2.4

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. Data for this item are included in figures in parentheses above. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1977 were obtained from administrative records supplied by other agencies of the Federal Government. These data were then used in conjunction with industry averages to estimate the balance of items shown. Data are also included in respective size classes shown.

[3]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[4]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

[5]Four-digit industry totals for all items including establishment counts are not equal to sum of 6-digit subindustry figures due to difficulties in classifying a few establishments at subindustry level.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1977

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing operations of individual companies. For explanation of terms, see appendix A]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2651	**Folding paperboard boxes:**										
	Entire industry	574	44.7	577.8	35.8	71.8	409.8	1 136.8	1 460.2	2 579.0	89.8
	Establishments with 75 percent specialization or more	480	33.1	431.6	26.5	53.0	304.7	867.9	1 129.9	1 984.2	68.0
2652	**Setup paperboard boxes:**										
	Entire industry	312	13.1	115.3	11.2	20.6	80.8	211.6	149.9	360.5	8.8
	Establishments with 75 percent specialization or more	284	11.7	102.1	10.0	18.4	71.8	186.8	127.8	313.5	7.7
2653	**Corrugated and solid fiber boxes:**										
	Entire industry	1 472	101.5	1 374.8	73.5	146.5	867.0	2 704.1	4 660.7	7 351.1	243.3
	Establishments with 75 percent specialization or more	1 434	99.1	1 341.3	71.7	143.0	845.1	2 647.5	4 577.6	7 211.0	232.8
2654	**Sanitary food containers:**										
	Entire industry	193	28.7	336.7	22.7	43.5	228.2	836.8	1 226.6	2 048.4	52.4
	Establishments with 75 percent specialization or more	155	20.8	241.7	16.1	31.4	164.7	611.3	1 001.7	1 601.6	37.9
26541	Milk and other beverage paperboard cartons:										
	Establishments with this product class primary	25	2.8	36.3	2.1	4.1	25.9	114.2	353.4	466.6	5.0
	Establishments with 75 percent specialization or more in class	24	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26542	Cups and liquid-tight paperboard containers:										
	Establishments with this product class primary	35	14.3	156.2	11.3	20.7	99.7	423.2	432.7	844.8	33.5
	Establishments with 75 percent specialization or more in class	25	5.4	52.0	4.8	9.1	42.2	122.2	168.3	284.9	11.8
26543	Other sanitary food containers, boards, and trays:										
	Establishments with this product class primary	83	10.6	134.4	8.5	17.2	95.6	276.0	411.8	684.8	12.3
	Establishments with 75 percent specialization or more in class	52	6.4	79.1	5.1	10.2	57.1	170.3	272.0	440.0	6.3
2655	**Fiber cans, drums, and similar products:**										
	Entire industry	309	16.1	197.3	13.4	26.7	147.6	406.9	606.7	1 011.1	26.7
	Establishments with 75 percent specialization or more	294	14.2	173.2	11.8	23.4	128.5	353.6	513.1	864.9	23.3
26551	Fiber drums:										
	Establishments with this product class primary	43	3.4	45.4	3.0	6.2	37.7	96.7	133.7	229.8	3.4
	Establishments with 75 percent specialization or more in class	38	3.1	40.8	2.7	5.6	33.9	85.4	113.8	198.7	(D)
26552	Fiber cans, tubes, and similar products:										
	Establishments with this product class primary	177	12.0	144.3	9.8	19.3	104.4	297.7	453.6	748.4	22.4
	Establishments with 75 percent specialization or more in class	167	10.4	124.7	8.5	16.7	88.9	254.2	379.7	632.6	19.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. (S) Withheld because estimate did not meet publication standards. (X) Not applicable. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

[2]Data in value of shipments column represent value of work done rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change in inventories between beginning and end of year.

Table 5b. Industry-Product Analysis—Value of Shipments for an Industry and Primary Product Shipments, and Specialization and Coverage Ratios: 1977, 1972, and 1967

(An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For explanation of terms, see appendix A)

1977 product code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B / Col. B&C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B / Col. F (percent)
		A	B	C	D	E	F	G	H	I
2651	Folding paperboard boxes.....1977..	2,579.0	r2,186.3	334.2	58.5	87	r2,393.4	r2,186.3	207.1	91
	1972..	r1,487.0	r1,240.9	215.8	30.3	85	r1,365.6	r1,240.9	124.7	91
	1967..	1,216.2	1,005.7	190.4	20.1	84	1,116.2	1,005.7	110.5	90
2652	Setup paperboard boxes.....1977..	360.5	328.2	25.1	7.3	93	377.7	328.2	49.5	87
	1972..	321.3	295.1	18.5	7.7	94	342.6	295.1	47.5	86
	1967..	282.4	254.4	21.4	6.6	92	291.8	254.4	37.4	87
2653	Corrugated and solid fiber boxes.....1977..	7,351.1	7,112.8	78.7	159.6	99	7,182.8	7,112.8	70.0	99
	1972..	4,308.8	4,139.4	67.8	101.6	98	4,196.9	4,139.4	57.5	99
	1967..	2,959.6	2,838.7	59.9	61.0	98	2,893.2	2,838.7	54.5	98
2654	Sanitary food containers.....1977..	r2,048.4	r1,691.4	246.3	110.6	87	r1,964.9	r1,691.4	r273.5	86
	1972..	r1,419.7	r1,207.2	122.0	90.5	91	r1,381.3	r1,207.2	r174.1	87
	1967..	1,093.9	954.5	79.8	59.6	92	1,105.8	954.5	151.3	86
2655	Fiber cans, drums, and similar products.....1977..	1,011.1	923.8	73.9	13.4	93	1,040.4	923.8	116.6	89
	1972..	568.0	537.4	25.6	5.0	95	620.0	537.4	82.6	87
	1967..	385.2	362.2	15.8	7.2	96	425.4	362.2	63.2	85

rRevised.

Table 5c. Industry-Product Analysis — Shipments by Product Class and Industry: 1977

(Millions of dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least $2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed at end of table if they account for more than $5 million of products primary to this chapter. For explanation of terms, see appendix A)

1977 product code	Product group, product class, and miscellaneous receipts	All industries	Folding paperboard boxes (SIC 2651)	Setup paperboard boxes (SIC 2652)	Corrugated and solid fiber boxes (SIC 2653)	Sanitary food containers (SIC 2654)	Fiber cans, drums, and similar products (SIC 2655)	Other industries
	Total	(X)	2,579.0	360.5	7,351.1	2,048.4	1,011.1	(X)
	Primary products	(X)	2,186.3	328.2	7,112.8	1,691.4	923.8	(X)
	Secondary products	(X)	334.2	25.1	78.7	246.3	73.9	(X)
	Miscellaneous receipts	(X)	58.5	7.3	159.6	110.6	13.4	(X)
26510	Bending paperboard packaging and packaging components.	2,393.4	2,186.3	(D)	(D)	90.3	(D)	66.5
26520	Setup paperboard boxes	377.7	32.4	328.2	6.5	4.5	-	6.2
26530	Corrugated and solid fiber boxes (including pallets)	7,182.8	20.9	3.7	7,112.8	(D)	(D)	31.9
2654-	Sanitary food containers	1,964.9	219.5	(D)	4.4	1,691.4	(D)	48.8
26541	Milk and other beverage paperboard cartons	480.0	(D)	(D)	(D)	473.7	-	-
26542	Cups and liquid-tight paperboard containers	594.1	(D)	(D)	(D)	575.8	-	11.6
26543	Other sanitary food containers, boards, and trays	842.2	205.7	.5	(D)	595.0	(D)	37.1
26540	Sanitary food paperboard containers, n.s.k.	48.6	(D)	(D)	-	46.9	-	-
2655-	Fiber cans, drums, and similar products	1,040.4	2.7	(D)	(D)	(D)	923.8	(D)
26551	Fiber drums	223.8	-	-	-	-	(D)	(D)
26552	Fiber cans, tubes, and similar products	782.6	2.7	(D)	(D)	(D)	(D)	(D)
26550	Fiber cans, drums, and similar products, n.s.k.	34.0	-	-	-	-	34.0	-
	Other shipments by 4-digit product group:							
2642-	Envelopes	(X)	(D)	-	-	(D)	-	(X)
2643-	Bags, except textile bags	(X)	(D)	-	(D)	(D)	-	(X)
2645-	Die-cut paper and board	(X)	(D)	-	(D)	-	(D)	(X)
2647-	Sanitary paper products	(X)	-	-	-	(D)	-	(X)
2649-	Converted paper products, n.e.c.	(X)	(D)	-	(D)	(D)	-	(X)
2751-	Commercial printing, letterpress	(X)	6.6	(D)	-	(D)	-	(X)
2752-	Commerical printing, lithographic	(X)	17.3	-	-	-	-	(X)
2754-	Commercial printing, gravure	(X)	(D)	-	-	-	-	(X)
3079-	Miscellaneous plastics products	(X)	9.9	.7	2.5	111.4	8.5	(X)
3411-	Metal cans	(X)	-	-	-	-	(D)	(X)
3412-	Metal barrels, drums, and pails	(X)	-	-	-	-	(D)	(X)
3469-	Metal stampings, n.e.c.	(X)	-	-	-	-	(D)	(X)
3993-	Signs and advertising displays	(X)	2.5	(D)	16.0	-	(D)	(X)
	Miscellaneous receipts:							
93000 00	Contract work	(X)	6.6	.2	(D)	(D)	(D)	(X)
99980 13	Sales of scrap and refuse	(X)	14.2	.5	59.5	20.5	2.4	(X)
99980 41	Receipts for research and developmental work	(X)	(D)	-	(D)	(D)	-	(X)
99980 98	Other miscellaneous receipts	(X)	(D)	.5	5.1	1.6	(D)	(X)
99989 00	Resales	(X)	35.0	6.0	90.5	87.7	9.7	(X)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products:	
2651-	2631 Paperboard mills	(D)
	2752 Commercial printing, lithographic	(D)
	3497 Metal foil and leaf	(D)
2653-	3221 Glass containers	(D)
	3524 Lawn and garden equipment	(D)

1977 product code	Industry and miscellaneous receipts	Other industries
	Other industries with over $5 million shipments of primary products--Con.	
2654-	2647 Sanitary paper products	(D)
	2771 Greeting card publishing	(D)
	3079 Miscellaneous plastic products	(D)
2655-	3411 Metal cans	58.8
	3412 Metal barrels, drums, and pails	(D)
	3469 Metal stampings, n.e.c.	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity	Value (million dollars)
	FOLDING PAPERBOARD BOXES						
2651- --	Total	.....	(X)	(X)	2,393.4	(X)	1,365.6
26510 --	Bending paperboard packaging and packaging components (including die-cut, nonfolded packaging items, such as blister and skin packs and display rack-easel packages), except for liquid, moist, oily, or perishable food:						
26510 14	Dry food and produce, including pet and animal food, but excluding trays and boards for retail packaging	1,000 s. tons of paper and bd. consumed.	70	541.7	350.5	684.1	266.9
26510 21	Bottled and canned beverages, including carriers for alcoholic and nonalcoholic		33	**383.5	252.7	306.3	134.1
26510 31	Soaps and detergents		37	*255.6	161.6	242.6	88.4
26510 41	Tobacco		25	115.7	83.7	101.0	40.1
26510 71	Cosmetics and medicinal products		122	**280.9	264.7	247.1	163.4
26510 81	Paper goods or products, including book mailers		100	**401.7	282.2	*378.3	167.7
26510 51	Hardware and household supplies		136	*259.9	213.6		
26510 61	Candy		62	**91.5	73.1	*776.4	375.3
26510 98	All other end uses, n.e.c.	1,000 s. tons of paper and bd. consumed.	185	*618.4	515.7		
26510 00	Folding paperboard boxes, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(X)	(X)	154.3	(X)	r122.0
26510 02	Folding paperboard boxes, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(X)	(X)	41.3	(X)	7.7
	SETUP PAPERBOARD BOXES						
2652- --	Total	.....	(NA)	(X)	377.7	(X)	342.6
26520 --	Setup paperboard boxes (classified by end use):						
26520 21	Textiles, wearing apparel, and hosiery	1,000 s. tons of paper and board consumed.	54	(S)	44.7	*130.4	65.8
26520 31	Department stores and other retail stores		68	(S)	48.9	100.8	61.4
26520 41	Confections		37	(S)	39.7	*38.2	24.7
26520 51	Cosmetics, including soap		20	**31.3	21.1	**22.2	23.5
26520 61	Stationery and office supplies		44	(S)	17.5		
26520 71	Hardware and household supplies		36	(S)	16.9	**167.3	118.4
26520 98	All other end uses, n.s.k.	1,000 s. tons of paper and board consumed.	135	(S)	110.6		
26520 00	Setup paperboard boxes, n.s.k., typically for establishments with 5 employees or more (see note)	.....	(NA)	(X)	69.7	(X)	42.7
26520 02	Setup paperboard boxes, n.s.k., typically for establishments with less than 5 employees (see note)	.....	(NA)	(X)	8.7	(X)	6.1
	CORRUGATED AND SOLID FIBER BOXES						
2653- --	Total	.....	(NA)	(X)	7,182.8	(X)	4,196.9
26530 --	Corrugated and solid fiber boxes, including pallets: Corrugated shipping containers, classified by end use:						
26530 12	Food and beverages	1,000 s. tons of paper and board consumed.	183	*4,516.0	1,684.1	3,377.2	827.3
26530 13	Paper and allied products		186	**2,136.9	775.1	1,643.0	371.6
26530 15	Glass, clay, and stone products		113	**1,079.7	392.6	794.4	189.9
26530 16	Metal products, machinery, equipment, and supplies, except electrical		190	1,187.3	501.7	**1,106.8	305.0
26530 18	Electrical machinery, equipment, supplies, and appliances		177	(S)	444.6	908.9	244.7
26530 21	Chemicals and drugs, including paints, cosmetics, and soaps		122	*839.0	320.2		
26530 22	Lumber and wood products, including furniture		135	(S)	239.5	6,431.2	1,579.5
26530 29	All other end uses not specified above (leather, rubber, plastics, petroleum, etc.)		242	**3,978.3	1,550.9		
26530 51	Solid fiber		22	157.4	58.0	*153.4	40.8
26530 67	Corrugated paperboard in sheets and rolls, lined and unlined		95	*1,194.6	391.0	1,264.4	262.8
26530 68	Corrugated and solid fiber pallets, pads, and partitions	1,000 s. tons of paper and board consumed.	77	**360.2	140.1	440.1	103.9
26530 00	Corrugated and solid fiber boxes, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	519.9	(X)	251.8
26530 02	Corrugated and solid fiber boxes, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	165.0	(X)	19.6

See footnotes at end of table.

Table 6a. **Products and Product Classes—Quantity and Value of Shipments by All Producers: 1977 and 1972**—Con.

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see appendix A, Value of shipments)

1977 product code	Product	Unit of measure	1977			1972	
			Number of companies with shipments of $100,000 or more	Product shipments[1]		Product shipments	
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)
	SANITARY FOOD CONTAINERS						
2654- --	Total	.....	(NA)	(X)	1,964.9	(X)	r1,381.3
26541 --	Milk and milk-type cartons:						
26541 13	Milk and milk-type cartons, including juice, beverage, and other product cartons	1,000 s. tons of paper and board consumed.	12	752.2	480.0	894.3	316.4
26542 --	Cups and liquid-tight containers	.....	(NA)	(X)	594.1	(X)	r458.8
26542 33	Liquid-tight and round nested food containers, including lids and tops	1,000 s. tons of paper and board consumed.	10	35.9	40.5	*103.4	92.3
26542 35	Drinking cups and portion serving cups	1,000 s. tons of paper and board consumed.	19	**532.5	553.6	427.9	353.9
26542 00	Cups and liquid-tight containers, n.s.k	.....	(NA)	(X)	-	(X)	12.6
26543 --	Other sanitary food containers, boards, and trays	.....	(NA)	(X)	842.2	(X)	r584.8
	Food serving products (sanitary food containers):						
26543 11	Stamped plates, dishes, spoons, and similar products	1,000 s. tons of paper and board consumed.	28	**233.2	185.7	**233.3	98.5
26543 19	Other paperboard items	↑	28	**59.1	36.3	135.7	56.7
26543 28	Other paper items, including tablecloths and soda straws, except glass or plastics		7	*16.1	18.9	39.6	18.4
	Containers for liquid, moist, oily, or perishable foods, including frozen foods:						
26543 43	Frozen foods and fresh bakery, including frozen bakery		85	*406.5	321.5	**460.0	215.7
26543 53	Butter and ice cream packages and food pails		39	**204.7	157.7	**186.8	r99.6
26543 57	Processed meats, margarine, lard, and shortening		38	**71.2	69.1	**96.6	r52.6
26543 73	Trays and boards for fresh meat, poultry, and produce for retail packaging	1,000 s. tons of paper and board consumed.	16	**64.8	45.1	**75.5	25.2
26543 00	Other sanitary food containers, boards, and trays, n.s.k	.....	(NA)	(X)	7.8	(X)	18.1
26540 00	Sanitary food containers, n.s.k., typically for establishments with 10 employees or more (see note)	.....	(NA)	(X)	25.7	(X)	r19.8
26540 02	Sanitary food containers, n.s.k., typically for establishments with less than 10 employees (see note)	.....	(NA)	(X)	22.9	(X)	1.5
	FIBER CANS, DRUMS, AND SIMILAR PRODUCTS						
2655- --	Total	.....	(NA)	(X)	1,040.4	(X)	620.0
26551 --	Paperboard fiber drums with metal, wood, or paperboard ends:						
26551 51	Paperboard fiber drums with metal, wood, or paperboard ends.	1,000 s. tons of paper and board consumed.	13	149.4	223.8	160.1	136.9
26552 --	Fiber cans, tubes, and similar fiber products	.....	(NA)	(X)	782.6	(X)	465.7
26552 21	Cans, all fiber and composite	1,000 s. tons of paper and board consumed.	33	*210.9	469.0	216.1	253.2
26552 31	Cores and tubes	↑	62	*638.7	263.4	624.5	164.3
26552 71	Paperboard cones, reels, spools, bobbins, and blocks		12	63.5	36.7	79.1	31.0
26552 98	All vulcanized fiber products--boxes, cans, tubes, drums, etc	1,000 s. tons of paper and board consumed.	7	(S)	6.6	**34.3	14.0
26552 00	Fiber cans, tubes, and similar fiber products, n.s.k	.....	(NA)	(X)	6.9	(X)	3.2
26550 00	Fiber cans, drums, and similar fiber products, n.s.k., typically for companies with 10 employees or more (see note)	.....	(NA)	(X)	12.7	(X)	13.4
26550 02	Fiber cans, drums, and similar fiber products, n.s.k., typically for companies with less than 10 employees (see note)	.....	(NA)	(X)	21.2	(X)	4.0

Footnotes are on next page.

Table 6a. Products and Product Classes — Quantity and Value of Shipments by All Producers: 1977 and 1972 — Con.

Note: In 1977 Census of Manufactures, shipments data for establishments of small single-unit companies with up to 20 employees were estimated from administrative records data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002." In both 1977 and 1972 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (5 digits) followed by "00" or, in some cases, to appropriate product group code (4 digits) followed by "0 00."

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (X) Not applicable

[1]Quantity and value reported by all producers of product, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values, which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figures: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

Table 6b. Product Classes — Value of Shipments by All Producers by Geographic Area: 1977 and 1972

(Millions of dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than $2 million in product class shipments or they disclose operations of individual companies in 1977)

Product class and geographic area	Value of product shipments	
	1977	1972
26541, MILK AND OTHER BEVERAGE PAPERBOARD CARTONS		
United States	480.0	r316.4
Pacific Division:		
California	76.2	FF
26542, CUPS AND LIQUID-TIGHT PAPERBOARD CONTAINERS		
United States	594.1	r458.8
Middle Atlantic Division:		
New York	19.3	BB
East North Central Division:		
Illinois	119.2	70.0
26543, OTHER SANITARY FOOD CONTAINERS, BOARDS, AND TRAYS		
United States	842.2	r584.8
New England Division:		
Massachusetts	27.5	FF
Middle Atlantic Division:		
New York	41.9	34.8
New Jersey	13.3	12.2
Pennsylvania	68.5	45.6
East North Central Division:		
Ohio	26.0	23.2
Indiana	19.8	EE
Illinois	46.2	FF
Michigan	56.7	FF
West North Central Division:		
Missouri	27.2	23.0
South Atlantic Division:		
Maryland	48.0	EE
North Carolina	32.3	EE
Georgia	44.5	27.6
East South Central Division:		
Kentucky	36.9	12.9
Tennessee	6.3	BB
West South Central Division:		
Texas	18.8	EE
Pacific Division:		
Washington	17.4	EE
California	99.2	62.0
26551, FIBER DRUMS		
United States	223.8	136.9
Middle Atlantic Division:		
New Jersey	26.8	16.3
South Atlantic Division:		
Georgia	20.7	CC
26552, FIBER CANS, TUBES, AND SIMILAR PRODUCTS		
United States	782.6	465.7
New England Division:		
Massachusetts	17.9	10.4
Middle Atlantic Division:		
New York	24.0	15.4
New Jersey	50.0	32.7
Pennsylvania	76.4	36.3
East North Central Division:		
Ohio	61.7	FF
Indiana	38.3	FF
Illinois	29.9	17.2
Michigan	5.5	CC
Wisconsin	30.3	14.8
West North Central Division:		
Missouri	39.9	FF
South Atlantic Division:		
North Carolina	37.8	EE
Georgia	34.3	22.2
Florida	61.4	45.3
East South Central Division:		
Tennessee	38.4	21.4
Alabama	6.9	BB
West South Central Division:		
Louisiana	11.4	8.9
Texas	26.5	16.5
Pacific Division:		
Oregon	13.1	CC
California	53.1	33.4

Note: For 1972, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing operations of individual companies: AA--$1.0 to $1.9; BB--$2.0 to $4.9; CC--$5.0 to $9.9; EE--$10.0 to $19.9; FF--$20.0 to $49.9; GG--$50.0 or more.

[r]Revised.

Table 6c. **Product Classes—Value Shipped by All Producers: 1963, 1967, and 1972 to 1977**

(Millions of dollars)

1977 product code	Product class	1977	1976[1]	1975[1]	1974[1]	1973[1]	1972	1967	1963
26510	Bending paperboard packaging and packaging components.	2,393.4	2,162.3	1,874.7	1,806.6	1,597.4	1,365.6	1,116.2	1,026.0
26520	Setup paperboard boxes.....	377.7	405.7	343.7	400.1	337.8	342.6	291.8	232.3
26530	Corrugated and solid fiber boxes (including pallets)..	7,182.8	6,530.2	5,733.4	5,867.4	5,133.5	4,196.9	2,893.2	2,136.2
2654-	Sanitary food containers.....	1,964.9	1,743.9	1,616.0	1,506.3	1,359.1	1,381.3	1,105.8	854.7
26541	Milk and other beverage paperboard cartons.....	480.0	472.6	468.0	383.6	302.7	316.4	278.9	284.8
26542	Cups and liquid-tight paperboard containers.....	594.1	601.6	535.1	506.5	439.4	458.8	384.5	300.0
26543	Other sanitary food containers, boards, and trays.....	842.2	662.0	609.5	612.5	608.0	587.8	430.8	268.3
26540	Sanitary food paperboard containers, n.s.k.....	48.6	(S)	(S)	(3.6)	9.0	21.3	11.6	1.6
2655-	Fiber cans, drums, and similar products.....	1,040.4	1,000.1	907.9	908.8	743.0	620.0	425.4	302.1
26551	Fiber drums.....	223.8	212.6	191.5	207.9	156.7	136.9	93.4	62.0
26552	Fiber cans, tubes, and similar products.....	782.6	760.9	700.0	681.4	571.8	465.7	322.0	236.9
26550	Fiber cans, drums, and similar products, n.s.k.....	34.0	26.6	16.4	(19.5)	14.5	17.4	10.1	3.2

n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards.

[1]Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period. Figures in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. Thus, at individual product class level, estimates may be of limited reliability; however, they may be combined with other product class totals into broader aggregates which are of acceptable reliability.

Table 7. Materials Consumed by Kind: 1977 and 1972

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977 Quantity[1]	1977 Delivered cost (million dollars)	1972 Quantity[1]	1972 Delivered cost (million dollars)
	INDUSTRY 2651, FOLDING PAPERBOARD BOXES					
	Materials and supplies	.....	(X)	1,385.2	(X)	728.2
	Paper:					
262105	Own paper, produced at same location or affiliated or associated mills	1,000 s. tons..	2.2	1.2	18.0	3.6
262106	Purchased (market) paper	1,000 s. tons..	*135.6	63.2	79.1	24.2
	Paperboard:					
263102	Own paperboard, produced at same location or affiliated or associated mills	1,000 s. tons..	1,378.6	419.7	1,526.8	243.4
263103	Purchased (market) paper	1,000 s. tons..	*1,764.4	549.3	1,443.1	252.1
291106	Petroleum wax	Million lb.....	10.9	3.6	(X)	(2)
	Aluminum:					
335335	Foil		*4.9	3.6	(X)	(2)
335303	Sheet and plate		(S)	4.1	(X)	(2)
289301	Printing inks (complete formulations)		*61.6	70.4	44.3	33.7
289101	Glues and adhesives, including synthetic resin adhesives	Million lb.....	**28.9	10.0	24.9	5.4
331012	Carbon steel sheet and strip	1,000 s. tons..	(S)	4.5	.7	.4
970099	All other materials and components, parts, containers, and supplies	.....	(X)	155.5	(X)	[2]113.5
971000	Materials and supplies, n.s.k.[3]	.....	(X)	100.1	(X)	51.9
	INDUSTRY 2652, SETUP PAPERBOARD BOXES					
	Materials and supplies	.....	(X)	138.1	(X)	116.1
	Paper:					
262106	Purchased (market) paper	1,000 s. tons..	(S)	17.6	*41.4	18.0
	Paperboard:					
263102	Own paperboard, produced at the same location or affiliated or associated mills	1,000 s. tons..	*21.6	4.3	*43.7	5.8
263103	Purchased (market) paperboard	1,000 s. tons..	(S)	61.1	*374.4	49.4
289301	Printing inks (complete formulations)	Million lb.....	(S)	1.4	(NA)	(4)
289101	Glues and adhesives, including synthetic resin adhesives	Million lb.....	*10.8	3.3	12.1	2.7
331012	Carbon steel sheet and strip	1,000 s. tons..	(X)	26.4	(S)	.2
970099	All other materials and components, parts, containers, and supplies	.....			(X)	[4]21.7
971000	Materials and supplies, n.s.k.[3]	.....	(X)	24.0	(X)	18.3
	INDUSTRY 2653, CORRUGATED AND SOLID FIBER BOXES					
	Materials and supplies	.....	(X)	4,454.6	(X)	2,470.2
262105	Paper and paperboard, produced at the same location or affiliated or associated mills	1,000 s. tons..	9,136.3	1,937.7	7,892.8	1,002.3
263102						
262106	Purchased (market) paper and paperboard	1,000 s. tons..	8,140.8	1,743.1	8,571.3	1,114.1
263103						
291106	Petroleum wax	Million lb.....	**168.8	33.6	132.1	16.7
289301	Printing inks (complete formulations)		**52.9	45.3	78.8	27.5
289101	Glues and adhesives, including synthetic resin adhesives	Million lb.....	**659.5	82.9	496.0	37.8
331012	Carbon steel sheet and strip	1,000 s. tons..	(S)	4.1	6.3	2.4
970099	All other materials and components, parts, containers, and supplies	.....	(X)	273.2	(X)	151.5
971000	Materials and supplies, n.s.k.[3]	.....	(X)	334.7	(X)	117.9
	INDUSTRY 2654, SANITARY FOOD CONTAINERS					
	Materials and supplies	.....	(X)	1,110.8	(X)	684.9
	Paper:					
262105	Own paper, produced at same location or affiliated or associated mills	1,000 s. tons.	(D)	(D)	(D)	(D)
262106	Purchased (market) paper		196.0	102.1	199.3	44.8
	Paperboard:					
263102	Own paperboard, produced at same location or affiliated or associated mills		977.2	408.0	1,355.9	294.4
263103	Purchased (market) paper	1,000 s. tons.	916.3	324.2	950.1	187.4
291106	Petroleum wax	Million lb....	198.3	31.2	177.6	17.3
	Aluminum:					
335335	Foil		(D)	(D)	(D)	(D)
335303	Sheet and plate		(D)	(D)	(D)	(D)
289301	Printing inks (complete formulations)		20.5	27.8	24.7	21.4
289101	Glues and adhesives, including synthetic resin adhesives	Million lb....	*20.0	7.2	32.7	6.7
331012	Carbon steel sheet and strip	1,000 s. tons.	(D)	(D)	-	-
970099	All other materials and components, parts, containers, and supplies	.....	(X)	153.2	(X)	91.7
971000	Materials and supplies, n.s.k.[3]	.....	(X)	30.9	(X)	12.8

See footnotes at end of table.

Table 7. Materials Consumed by Kind: 1977 and 1972 – Con.

(Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see appendix A, Cost of materials)

1977 material code	Material	Unit of measure	1977		1972	
			Quantity[1]	Delivered cost (million dollars)	Quantity[1]	Delivered cost (million dollars)
	INDUSTRY 2655, FIBER CANS, DRUMS, AND SIMILAR PRODUCTS					
	Materials and supplies	.....	(X)	589.6	(X)	294.3
	Paper:					
262105	Own paper, produced at the same location or other affiliated or associated mills.	1,000 s. tons...			(D)	(D)
262106	Purchased (market) paper				76.3	12.3
	Paperboard:		954.7	197.5		
263102	Own paperboard, produced at the same location or other affiliated or associated mills				487.5	50.5
263103	Purchased (market) paperboard	1,000 s. tons...			348.3	44.0
291106	Petroleum wax	Million lb.....	(S)	.4	(X)	([5])
	Aluminum:					
335335	Foil		10.4	9.1	(D)	(D)
335303	Sheet and plate		21.8	17.2	12.4	6.0
289301	Printing inks (complete formulations)		(S)	.6	(X)	([5])
289101	Glues and adhesives, including synthetic resin adhesives	Million lb.....	*165.9	18.6	121.9	9.7
331012	Carbon steel sheet and strip	1,000 s. tons...	**150.8	70.6	79.0	19.6
970099	All other materials and components, parts, containers, and supplies	.....	(X)	234.8	(X)	[5]129.2
971000	Materials and supplies, n.s.k.[3]	.....	(X)	40.8	(X)	13.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. n.s.k. Not specified by kind.
(S) Withheld because estimate did not meet publication standards. (X) Not applicable.

[1]For some establishments, data have been estimated from central unit values, which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figures: * indicates 10 to 19 percent estimated, ** indicates 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]For 1972, material codes 291106, 335335, and 335303 were combined with material code 970099.

[3]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[4]For 1972, material code 289301 was included with material code 970099.

[5]For 1972, material codes 291106 and 289301 were included with material code 970099.

APPENDIX A. Explanation of Terms

This appendix is in two sections. Section 1 includes items for which all establishments that were mailed census of manufactures forms were requested to supply information. Section 2 covers supplementary items for which only establishments included in the annual survey of manufactures (ASM) sample were requested to supply information. Results of the supplementary ASM inquiries are included in this report. (See the Introduction, Manufacturing Universe and Census Report Forms, for a detailed explanation of the use of the ASM sample in a census of manufactures year and a description of the various report forms.)

SECTION 1. ITEMS COLLECTED ON ALL CENSUS OF MANUFACTURES REPORT FORMS

Employment and related items—The regular report forms requested separate information on production workers as of a payroll period for each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees—This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period ending nearest the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays and paid vacations during these pay periods. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the mid-month payroll periods of March, May, August, and November.

Production workers—This item includes workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Supervisory employees above the working foreman level are excluded from this category.

All other employees—This item covers nonproduction personnel of the manufacturing establishment, including those engaged in factory supervision above the working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical. Also included are employees on the payroll of the manufacturing establishment who are engaged in the construction of major additions or alterations to the plant and who are utilized as a separate work force.

In addition to reports sent to operating manufacturing establishments, information on employment during the payroll period which included March 12 and annual payrolls was also requested of administrative offices or auxiliary units (e.g., warehouses and research and development laboratories) of multiestablishment companies. However, these figures are not included in the totals for individual industries shown in this report. They are included in the Summary and Geographic Area reports and in the final bound volumes as a separate category.

Administrative office and auxiliary unit employees—As noted in the Introduction, companies were asked to file a special report form for any administrative office that was at a different location than the establishments managed or served, or at the same location as one of the establishments but not operated as an integral part of the establishment. Employees in **administrative offices** are concerned with the general management of multiestablishment companies, i.e., with the general supervision and control of two units or more, such as manufacturing plants, mines, sales branches, or stores. The functions of these employees may include (1) program planning, including sales research and coordination of purchasing, production, and distribution; (2) company purchasing, including general contracts and purchasing methods; (3) company financial policy and accounting, tax accounting, company sales and profits reports, and personnel accounting; (4) general engineering, including design of product machinery and equipment, and direction of engineering effort conducted at the individual operation locations; (5) direction of company personnel matters; and (6) legal and patent matters. **Auxiliaries** are separate storage facilities, garages, repair shops, purchasing offices, sales promotion offices, research and development organizations, etc., serving the plants or central management of the company.

The employment and payrolls of the administrative offices and auxiliaries serving manufacturing establishments are included in all tables at the "all industries" level. In tables where industry detail is shown, the data for these units appear as a separate industry group.

Payrolls—This item includes the gross earnings paid in the calendar year 1977 to all employees on the payroll of operating

manufacturing establishments. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations, but excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payroll of manufacturing establishments.

The census definition of payrolls is identical to that recommended to all Federal statistical agencies by the Office of Federal Statistical Policy and Standards. It should be noted that this definition does not include employers' Social Security contributions or other nonpayroll labor costs such as employees' pension plans, group insurance premiums, and workers' compensation.

The ASM provides estimates of employers' supplemental labor costs, both those required by Federal and State laws and those incurred voluntarily or as part of collective bargaining agreements. (Supplemental labor costs are explained later in this appendix.)

As in the case of employment figures, the payrolls of separate administrative offices and auxiliary units of multi-establishment companies are included in all tables at the "all industries" level. In tables where industry detail is shown, the data for these units appear as a separate industry group.

Production worker hours—This item covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave when the employee was not at the plant.

Cost of materials—This item refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, regardless of whether what was consumed was purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (1) all raw materials, semifinished goods, parts, components, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year; (2) electric energy purchased; (3) fuels consumed for heat, power, or generating electricity; (4) work done by others on materials or parts furnished by manufacturing establishments (contract work); and (5) products bought and resold in the same condition. (See discussion of duplication of data.)

Value of shipments—This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sale of products bought and resold without further processing. Included are all items made by or for the establishments from materials owned by it whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, i.e., including not only the direct costs of production but also a reasonable proportion of "all other costs" (including company overhead) and profit. (See discussion of duplication of data.)

Duplication in cost of materials and value of shipments—The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication, since the products of some industries are used as materials by others. With some important exceptions, such as for motor vehicles and parts, this duplication is not significant at the 4-digit industry level. However, it is significant at the 2-digit and 3-digit industry group level because these totals often include industries which represent successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the "Food" group and the addition of pulp mills to paper mills in the "Paper and Allied Products" group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication—the value of finished manufactures—tends to approximate two-thirds of the total value of products reported in the census of manufactures.

Value added by manufacture—This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is then adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process inventories between the beginning and end of the year.

"Value added" avoids the duplication in the figure for value of shipments which results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

New and used capital expenditures—For establishments in operation and establishments under construction but not yet in operation, manufacturers were asked to report their new expenditures for (1) permanent additions and major alterations to manufacturing establishments, and (2) machinery and equip-

ment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

The totals for new expenditures exclude that portion of expenditures leased from nonmanufacturing concerns, new facilities owned by the Federal Government but operated under contract by private companies, and plant and equipment furnished to the manufacturer by communities and nonprofit organizations. Also excluded are expenditures for used plant and equipment (although reported in the census), expenditures for land, and cost of maintenance and repairs charged as current operating expenses.

Manufacturers were also requested to report the value of all used buildings and equipment purchased during the year at the purchase price. For any equipment or structure transferred to the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported. Furthermore, if the establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported under used capital expenditures.

Total expenditures for used plant and equipment is a universe figure; i.e., it is collected on all census forms. However, the breakdown of this figure between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form and is subject to sampling error (see table 3b, chapters 2 and 4).

End-of-year inventories—Respondents were asked to report their 1977 and 1976 end-of-year inventories at approximate current costs, if feasible; otherwise, at book values. Since different methods of inventory valuation are used (last-in-first-out (LIFO), first-in-first-out (FIFO), etc.), the definition of the value of inventories aggregate for all establishments in an industry is not precise. The change in inventory between years is of considerably greater significance.

In using inventory data by stage of fabrication for "all industries" and at the 2-digit industry level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and "all manufacturing" which are aggregates of figures reported by establishments in specified industries.

SECTION 2. ITEMS COLLECTED ONLY ON ASM REPORT FORM

Cost of purchased services—ASM establishments were requested to provide information on the cost of purchased services for the repair of buildings and other structures, the repair of machinery and communication services. Included in the cost of purchased services for the repair of building and machinery are payments made for all maintenance and repair work on buildings and equipment such as painting, roof repairs, replacing parts, and overhauling equipment. Such payments made to other establishments of the same company and for repair and maintenance of any leased property are also included. Extensive repairs or reconstruction that were capitalized are considered capital expenditures for used buildings and machinery and are, therefore, excluded from this item. Repair and maintenance costs provided by an owner as part of a rental contract and incurred directly by an establishment in using its own work force are also excluded.

The response coverage ratio for each of the three types of purchased services listed above is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those ASM establishments that reported the specific inquiry to the weighted total employment for all ASM establishments classified in the industry (see table 3c, chapters 2 and 4).

Rental payments—This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production, office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets, and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments. However, the book value (original cost) of these company-owned assets were to be reported as assets of the establishment at the end of the year.

If there were assets at an establishment rented from another company, and the rents were paid centrally by the head office of the establishment, the company was instructed to report these rental payments as if they were paid directly by the establishment.

Supplemental labor costs—Supplemental labor costs are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. They exclude such items as company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees. While the excluded items do benefit employees, and all or part of their cost is generally similar to the items covered in the annual survey labor costs statistics, accounting records do not generally provide reliable figures on net employee benefits of these types.

Beginning and end-of-year depreciable assets—The data encompass all fixed depreciable assets on the books of establishments at the beginning and at the end of the year. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are nondepreciable capital assets, including inventories and intangible assets such as patent rights and royalties. Also excluded are land and depletable assets such as timber and mineral rights.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year, rather than the final value of equipment put in place and buildings completed during the year. Accordingly, the value of assets at the end of the year includes the value of construction in progress. In addition, respondents were requested to make certain that assets at the beginning of the year plus new and used capital expenditures, less retirements, equaled assets at the end of the year.

New and used capital expenditures—The data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used capital expenditures are collected on all census forms. However, the breakdown between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. (See further explanation on capital expenditures in section 1.)

Breakdown of new capital expenditures for machinery and equipment—ASM establishments were requested to separate their capital expenditures for new machinery and equipment into (1) automobiles, trucks, etc., for highway use; (2) computers and peripheral data processing equipment; and (3) all other.

The category "automobiles, trucks, etc., for highway use" is intended to measure expenditures for vehicles designed for highway use which were acquired through a purchase of lease-purchase agreement. Vehicles normally operating off public highways—vehicles specifically designed to transport materials, property, or equipment on mining, construction, logging, and petroleum development projects—are excluded from this item.

The "not specified by kind" or n.s.k. item for expenditures for new machinery and buildings shown in table 3b represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories. This means that for most industries the specific categories are understated.

Retirements—Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during 1977. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent was also requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.

Depreciation charges—This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.

APPENDIX B. Annual Survey of Manufactures

DESCRIPTION OF SURVEY SAMPLE

The annual survey of manufactures (ASM) is a survey based on a probability sample of about 70,000 manufacturing establishments selected from the census of manufactures universe. The current sample was selected from the manufacturing establishments included in the 1972 Census of Manufactures supplemented by Social Security Administration (SSA) files of manufacturers that opened after 1972. As in the earlier surveys, companies rather than establishments were defined as the sampling units. The selected companies were required to report for all of their plants, so that new establishments of existing companies also were represented in the sample.

All companies that had any manufacturing establishments with 250 employees or more in the 1972 census were included in the survey sample. These large companies, included with certainty, collectively account for more than two-thirds of total manufacturing employment.

Smaller companies were selected for the ASM in accordance with mathematical theory for optimum allocation of a sample. Their probabilities of inclusion ranged from 1.000 to 0.005 and were proportional to measures of size determined for each company. The measures of size of companies included in the 1972 Census of Manufactures depended directly upon each company's 1972 product class values and the historic variability of the year-to-year shipments of each product class. Roughly equivalent measures of size were assigned to the postcensus companies based on their industry codes and anticipated employment. (More specific information was not available for them in the SSA files used for sampling.)

To improve the reliability of the industry statistics for geographic areas, two features were incorporated into the sample design. First, some weight was given to the total value of shipments of each establishment relative to the total value of shipments for the State in which the establishment was located. Second, product class values for establishments in those States in which the total level of manufacturing was relatively low or was rapidly expanding (but for which the reliability of estimates was not expected to be much improved by the first sample design feature) were multiplied by factors ranging from 1.15 to 1.25 before measures of size were developed.

This method of assigning measures of size was used to maximize the precision (i.e., minimize the variance) of estimates of the year-to-year change in the value of product class shipments. Implicitly, it also gave weight to differences in employment, value added, and other industry statistics. These items are highly correlated with total value of shipments, and the assigned size measures varied directly with that total for each company.

The cost of collecting and processing data for a company is roughly proportional to the number of its establishment reports. To maximize the sample information obtained for a fixed total cost, each company's initial size measure was divided by the square root of its number of establishments. Sample selection probabilities then were obtained by multiplying each company's final measure of size by an overall sampling fraction calculated to yield the total expected sample size.

The sample selection procedure gave each company in the sampling frame an independent chance of selection. This method of selection differs from the method of systematic selection used in annual surveys prior to 1959. (With systematic selection, only certain combinations of companies can fall into the sample depending on the order in which they are arrayed at the time the sample is drawn.) Independent selection permits the rotation of the smaller companies into and out of a given sample panel without introducing a bias into the survey estimates.

ESTIMATING PROCEDURES

Most of the historical data compiled from the annual survey of manufactures sample were computed by the "difference estimate formula." For each item, linear estimates of the totals for both the most recent census of manufactures year and the ASM year were developed by multiplying each sample establishment's data by its sample weight (the reciprocal of its probability of selection) and summing the weighted values to publication levels. Then the difference between the two linear estimates was added to the complete (universe) total for the census year to produce the estimate for the ASM year. Estimates developed by the difference estimate formula usually are far more reliable than the comparable linear estimates developed from the current sample data alone.

The 1977 sample data were also developed using difference estimates. However, since the universe totals for the census year (either 1972 or 1977) were not known, a modification of the procedure described above was necessary. For each item, except purchased services and the breakdown of expenditures for new machinery and equipment (see further description in appendix A), linear estimates of the publication totals from the ASM sample were adjusted by the difference between imputed census totals and the corresponding ASM sample estimates of these imputed totals. These imputed totals are obtained by applying industry average ratios to control item values at the establishment level. For example, an imputed total beginning assets figure is obtained by multiplying each establishment's total value of shipments by the industry (4-digit SIC) average for the ratio of beginning assets to shipments.

QUALIFICATIONS OF THE DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sampled lists but otherwise conducted under essentially the same conditions as the actual sample survey. The sampling errors—the differences between the estimates obtained and the results theoretically obtainable from a comparable complete coverage survey—are unknown. Guides to the potential size of the sampling errors, however, are provided by the standard errors of the estimates.

The particular sample selected for the ASM is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretical, comparable, complete coverage values.

Estimates of the standard errors have been computed from the sample data for the current statistics, as well as the historical ASM data. They are presented in the form of relative standard errors, i.e., the standard errors divided by the estimated values to which they refer.

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals—ranges that would include the comparable complete coverage value for specified percentages of all the possible samples. The complete coverage value would be included in the range:

a. From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.
b. From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.
c. From three standard errors below to three standard errors above the derived estimate for nearly all possible samples.

An inference that the comparable complete survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence with which the estimates from a particular sample would differ from complete coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown as 50,000 with an associated relative standard error of 2 percent, i.e., a standard error of 1,000 (2 percent of 50,000). Then there is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete coverage total.

In addition to the sample errors, the estimates are subject to various operational errors (errors of collection, reporting, coding, transcription, imputation for nonresponse, etc.). These errors would also occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected in the course of the Bureau's review of the data for reasonableness and consistency. When they were detected too late to correct, the data were suppressed or were specifically qualified in the tables. The small operational errors usually remain; to some extent, they are compensating in the aggregated totals shown.

As derived, the estimated standard errors include part of the effect of the operational errors. The total error, which depends upon the joint effect of the sampling and operation errors, is usually of the order of size indicated by the standard error or only moderately higher. For particular estimates, however, the total error may considerably exceed the standard errors shown.

The concept of complete coverage under the conditions prevailing for the annual surveys of manufactures is not identical to the complete coverage of the censuses of manufactures as conducted. Nearly all types of operational errors that affect the surveys also occur in the censuses. The surveys and the censuses, however, are conducted under quite different conditions, and operational errors can be controlled more tightly in the surveys than in the censuses. As a result, errors in many of the census figures are of the same order of size as the total errors in the corresponding annual survey estimates. The differences between the census and the survey operating conditions also disturb, to some degree, the comparability of the census and annual survey data.

Any figure shown in the tables in this publication having an associated standard error exceeding 15 percent may be of limited reliability. However, the figure may be combined with other totals, creating a broader aggregate, which may then be of acceptable reliability.

APPENDIX C. Industry Descriptions

This appendix contains descriptions of the 450 4-digit industries for which data were compiled and published in the 1977 Census of Manufactures. With two exceptions, the industries are the same as those described in the 1972 edition of the Standard Industrial Classification (SIC) Manual. SIC Industry 3572, Typewriters, was combined with Industry 3579, Office Machines, N.E.C., in the census tabulations and SIC Industry 3716, Motor Homes Produced on Purchased Chassis, was added

The industry titles and descriptions, in general, agree with those appearing in the SIC Manual, but the descriptions have been expanded, in some instances, to include references to additional products classified in other industries.

20 FOOD AND KINDRED PRODUCTS

This major group includes establishments manufacturing or processing foods and beverages for human consumption, and certain related products, such as manufactured ice, chewing gum, vegetable and animal fats and oils, and prepared feeds for animals and fowls.

201 MEAT PRODUCTS

2011 Meatpacking Plants.—Establishments primarily engaged in the slaughtering, for their own account or on a contract basis for the trade, of cattle, hogs, sheep, lambs, and calves for meat to be sold or to be used on the same premises in canning and curing, and in making sausage, lard and other products. Establishments primarily engaged in killing, dressing, and packing poultry, rabbits, and other small game are classified in industry 2016; and those primarily engaged in killing and processing horses and other nonfood animals are classified in industry 2047. Establishments primarily engaged in manufacturing sausages and meat specialties from purchased meats are classified in industry 2013; and establishments primarily engaged in canning meat for baby food are classified in industry 2032.

2013 Sausages and Other Prepared Meat Products.—Establishments primarily engaged in manufacturing sausages, cured meats, smoked meats, canned meats, frozen meats, natural sausage casings, and other prepared meats and meat specialties from purchased carcasses and other materials. Sausage kitchens and other prepared meat plants operated by packing houses as separate establishments are also included in this industry. Establishments primarily engaged in canning or otherwise processing poultry, rabbits, and other small game are classified in industries 2016 and 2017. Establishments primarily engaged in the cutting up and resale of purchased fresh carcasses are classified in trade industries. Establishments primarily engaged in canning meat for baby food are classified in industry 2032.

2016 Poultry Dressing Plants.—Establishments primarily engaged in slaughtering and dressing poultry for their own account or on a contract basis for the trade for meat to be sold or to be used on the same premises in further processing, including cooking, smoking, raw-boning, canning, freezing, and dehydrating. This industry also includes the killing, dressing, and packing of rabbits and other small game. Establishments primarily engaged in processing purchased carcasses are classified in industry 2017.

2017 Poultry and Egg Processing.—Establishments primarily engaged in the preparation of processed poultry products from purchased carcasses, including cooking, smoking, raw-boning, canning, freezing, and dehydrating, for their own account or on a contract basis for the trade; or in the drying, freezing, and breaking of eggs. The cleaning, oil treating, packing, and grading of eggs are classified in industry 5144. Establishments primarily engaged in the cutting up and resale of purchased fresh carcasses are classified in the trade industries.

202 DAIRY PRODUCTS

This group includes establishments primarily engaged in (1) manufacturing creamery butter, natural cheese, condensed and evaporated milk, ice cream and frozen desserts, and special dairy products such as processed cheese and malted milk and (2) processing (pasteurizing, homogenizing, vitaminizing, bottling) fluid milk and cream for wholesale or retail distribution. Independently operated milk receiving stations primarily engaged in the assembly and reshipment of bulk milk for the use of manufacturing or processing plants are classified in industry 5143.

2021 Creamery Butter.—Establishments primarily engaged in manufacturing creamery butter.

2022 Cheese, Natural and Processed.—Establishments primarily engaged in manufacturing all types of natural cheese (except cottage cheese—industry 2026), processed cheese, cheese foods, and cheese spreads.

2023 Condensed and Evaporated Milk.—Establishments primarily engaged in manufacturing condensed and evaporated milk and related products, including ice-cream mix and ice-milk mix made for sale as such, and dry milk products. Also included in the manufacture of nondairy-base cream substitutes and dietary supplements.

2024 Ice Cream and Frozen Desserts.—Establishments primarily engaged in manufacturing ice cream and other frozen desserts.

2026 **Fluid Milk.**—Establishments primarily engaged in processing (pasteurizing, homogenizing, vitaminizing, bottling) and distributing fluid milk and cream, and related products, including cottage cheese.

203 CANNED AND PRESERVED FRUITS AND VEGETABLES

2032 **Canned Specialties.**—Establishments primarily engaged in canning specialty products, such as baby foods, "native foods," health foods, and soups except seafood. Establishments primarily engaged in canning seafoods other than frozen are classified in industry 2091, frozen seafoods in industry 2092, and those primarily engaged in quick freezing canned specialties in industry 2038.

2033 **Canned Fruits, Vegetables, Preserves, Jams, and Jellies.**—Establishments primarily engaged in canning fruits and vegetables, and fruit and vegetable juices; and manufacturing catsup and similar tomato sauces, preserves, jams, and jellies. Establishments primarily engaged in canning seafoods (except frozen) are classified in industry 2091; and canned specialties, baby foods, and soups (except seafood) in industry 2032.

2034 **Dried and Dehydrated Fruits, Vegetables, and Soup Mixes.**—Establishments primarily engaged in sun drying or artificially dehydrating fruits and vegetables, or in manufacturing packaged soup mixes from dehydrated ingredients. Establishments primarily engaged in the grading and marketing of farm dried fruits, such as prunes and raisins, are classified in industry 5149.

2035 **Pickled Fruits and Vegetables, Vegetable Sauces and Seasonings, and Salad Dressings.**—Establishments primarily engaged in pickling and brining fruits and vegetables, and in manufacturing salad dressings, vegetable relishes, sauces, and seasonings. Establishments primarily engaged in manufacturing catsup and similar tomato sauces are classified in industry 2033, and those packing purchased pickles and olives in trade industries.

2037 **Frozen Fruits, Fruit Juices and Vegetables.**—Establishments primarily engaged in freezing and coldpacking (freezing) fruits, fruit juices, and vegetables.

2038 **Frozen Specialties.**—Establishments primarily engaged in freezing and coldpacking (freezing) food specialties such as frozen dinners and frozen pizza.

204 GRAIN MILL PRODUCTS

2041 **Flour and Other Grain Mill Products.**—Establishments primarily engaged in milling flour or meal from grain, except rice. The products of flour mills may be sold plain or in the form of prepared mixes or doughs for specific purposes. Establishments primarily engaged in manufacturing prepared flour mixes or doughs from purchased ingredients are classified in industry 2045, and rice milling in industry 2044.

2043 **Cereal Breakfast Foods.**—Establishments primarily engaged in manufacturing cereal breakfast foods and related preparations.

2044 **Rice Milling.**—Establishments primarily engaged in cleaning and polishing rice, and in manufacturing rice flour or meal. Other important products of this industry include brown rice, milled rice (including polished rice), rice polish, and rice bran.

2045 **Blended and Prepared Flour.**—Establishments primarily engaged in the preparation of blended flours and flour mixes or doughs from purchased flour. Establishments primarily engaged in milling flour from grain are classified in industry 2041.

2046 **Wet Corn Milling.**—Establishments primarily engaged in milling corn or sorghum grain (milo) by the wet process, and producing starch, sirup, oil, sugar, and byproducts such as gluten feed and meal. Establishments primarily engaged in manufacturing starch from other vegetable sources (potato, wheat, etc.) are also included. Establishments primarily engaged in manufacturing table sirups from corn sirup and other ingredients and those manufacturing starch-base dessert powders are classified in industry 2099.

2047 **Dog, Cat and Other Pet Food.**—Establishments primarily engaged in manufacturing dog, cat, and other pet food from cereal, meat, and other ingredients. These preparations may be canned, frozen, or dry. This industry also includes establishments slaughtering animals for pet food. Establishments primarily engaged in manufacturing feed for animals, other than pets, are classified in industry 2048.

2048 **Prepared Feeds and Feed Ingredients for Animals and Fowls, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing prepared feeds and feed ingredients and adjuncts, for animals and fowls, not elsewhere classified. This industry in-

cludes poultry and livestock feed and feed ingredients, such as alfalfa meal, feed supplements, feed concentrates, and feed premixes. Establishments primarily engaged in manufacturing pet foods are classified in industry 2047.

205 BAKERY PRODUCTS

2051 Bread and Other Bakery Products, Except Cookies and Crackers.—Establishments primarily engaged in manufacturing bread, cakes, and other "perishable" bakery products. Establishments manufacturing bakery products for sale primarily for home service delivery, or through one or more non-baking retail outlets, are included in this industry. Establishments primarily engaged in producing "dry" bakery products, such as biscuits, crackers, and cookies, are classified in industry 2052. Establishments producing bakery products primarily for direct sale on the premises to household consumers are classified in Retail Trade, industry 5462.

2052 Cookies and Crackers.—Establishments primarily engaged in manufacturing cookies, crackers, pretzels, and similar "dry" bakery products. Establishments primarily engaged in producing "perishable" bakery products are classified in industry 2051.

206 SUGAR AND CONFECTIONERY PRODUCTS

2061 Cane Sugar, Except Refining Only.—Establishments primarily engaged in manufacturing raw sugar, sirup, or finished (granulated or clarified) cane sugar from sugarcane. Establishments primarily engaged in refining sugar from purchased raw cane sirup or sugar sirups are classified in industry 2062.

2062 Cane Sugar Refining.—Establishments primarily engaged in refining purchased raw cane sugar and sugar sirup.

2063 Beet Sugar.—Establishments primarily engaged in manufacturing sugar from sugar beets.

2065 Candy and Other Confectionery Products.—Establishments primarily engaged in manufacturing candy, including chocolate candy, salted nuts, other confections, and related products. Establishments primarily engaged in manufacturing solid chocolate bars are classified in industry 2066 and chewing gum in industry 2067. Establishments primarily engaged in manufacturing confectionery for direct sale on the premises are classified in industry 5441, and those primarily engaged in shelling and roasting nuts are classified in industry 5145.

2066 Chocolate and Cocoa Products.—Establishments primarily engaged in shelling, roasting, and grinding cacao beans for the purpose of making chocolate liquor, from which cocoa powder and cocoa butter are derived, and in the further manufacture of solid chocolate bars and chocolate coatings. Establishments primarily engaged in manufacturing products, except candy, from purchased chocolate and cocoa are classified in industry 2099, and chocolate candy in industry 2065.

2067 Chewing Gum.—Establishments primarily engaged in manufacturing chewing gum or chewing gum base.

207 FATS AND OILS

2074 Cottonseed Oil Mills.—Establishments primarily engaged in manufacturing cottonseed oil and byproduct cake, meal, and linters. Establishments primarily engaged in refining cottonseed oil into edible cooking oils are classified in industry 2079.

2075 Soybean Oil Mills.—Establishments primarily engaged in manufacturing soybean oil and byproduct cake and meal. Establishments primarily engaged in refining soybean oil into edible cooking oils are classified in industry 2079.

2076 Vegetable Oil Mills, Except Corn, Cottonseed, and Soybean.—Establishments primarily engaged in manufacturing vegetable oils and byproduct cake and meal, except corn, cottonseed, and soybean. Establishments primarily engaged in manufacturing corn oil and its byproducts are classified in industry 2046, those which are refining vegetable oils into edible cooking oils are classified in industry 2079, and those refining these oils for medicinal purposes in industry 2833.

2077 Animal and Marine Fats and Oils.—Establishments primarily engaged in manufacturing animal oils, including fish oil and other marine animal oils and fish and animal meal; and those rendering inedible grease and tallow from animal fat, bones, and meat scraps. Establishments primarily engaged in manufacturing lard and edible tallow and stearin are classified in group 201; those refining marine animal oils for medicinal purposes in industry 2833; and those manufacturing fatty acids in industry 2899.

2079 **Shortening, Table Oils, Margarine and Other Edible Fats and Oils, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing shortening, table oils, margarine, and other edible fats and oils, not elsewhere classified, by further processing of purchased animal and vegetable oils. Establishments primarily engaged in producing corn oil are classified in industry 2046.

208 BEVERAGES

2082 **Malt Beverages.**—Establishments primarily engaged in manufacturing all kinds of malt beverages. Establishments primarily engaged in bottling purchased malt beverages are classified in industry 5181.

2083 **Malt.**—Establishments primarily engaged in manufacturing malt or malt byproducts from barley or other grains.

2084 **Wines, Brandy, and Brandy Spirits.**—Establishments primarily engaged in manufacturing wines, brandy, and brandy spirits. This industry also includes bonded storerooms which are engaged in blending wines. Establishments primarily bottling purchased wines, brandy, and brandy spirits, but which do not manufacture wines and brandy, are classified in industry 5182.

2085 **Distilled, Rectified, and Blended Liquors.**—Establishments primarily engaged in manufacturing alcoholic liquors by distillation and rectification and in manufacturing cordials and alcoholic cocktails by blending processes or by mixing liquors and other ingredients. Establishments primarily engaged in manufacturing industrial alcohol are classified in industry 2869, and those only bottling purchased liquors in industry 5182.

2086 **Bottled and Canned Soft Drinks and Carbonated Waters.**—Establishments primarily engaged in manufacturing soft drinks (nonalcoholic beverages) and carbonated waters. Establishments primarily engaged in manufacturing fruit and vegetable juices are classified in group 203, fruit sirups for flavoring in industry 2087, and cider in industry 2099. Establishments primarily engaged in bottling natural spring waters are classified in industry 5149.

2087 **Flavoring Extracts and Flavoring Sirups, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing flavoring extracts, sirups, and fruit juices, not elsewhere classified, for soda fountain use or for the manufacture of soft drinks, and colors for bakers' and confectioners' use. Establishments primarily engaged in manufacturing chocolate sirup are classified in industry 2066 if from cacao beans and in industry 2099 if from purchased chocolate.

209 MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS

2091 **Canned and Cured Fish and Seafoods.**—Establishments primarily engaged in cooking and canning fish, shrimp, oysters, clams, crabs, and other seafoods, including soups; and those engaged in smoking, salting, drying, or otherwise curing fish for the trade. Establishments primarily engaged in shucking and packing fresh oysters in nonsealed containers, or in freezing and packaging fresh fish, are classified in industry 2092.

2092 **Fresh or Frozen Packaged Fish and Seafoods.**—Establishments primarily engaged in preparing fresh and raw or cooked frozen packaged fish and other seafood, including soups. This industry also includes establishments primarily engaged in the shucking and packing of fresh oysters in nonsealed containers.

2095 **Roasted Coffee.**—Establishments primarily engaged in roasting coffee and in manufacturing coffee concentrates and extracts in powdered, liquid, or frozen form, including freeze-dried.

2097 **Manufactured Ice.**—Establishments primarily engaged in manufacturing ice for sale. Ice plants operated by public utility companies are included in this industry when separate reports are available. When separate reports are not available, they should be classified in SIC Major Group 49. Establishments primarily engaged in manufacturing dry ice are classified in industry 2813.

2098 **Macaroni, Spaghetti, Vermicelli, and Noodles.**—Establishments primarily engaged in manufacturing dry macaroni, spaghetti, vermicelli, and noodles. Establishments primarily engaged in manufacturing canned macaroni, spaghetti, etc., are classified in industry 2032.

2099 **Food Preparations, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing prepared foods and miscellaneous food specialties, not elsewhere classified, such as baking powder, yeast, and other leavening compounds; chocolate and cocoa products, except confectionery, made from purchased materials; peanut butter; packaged tea including instant; ground spices; potato, corn, and other chips; and vinegar and cider.

21 TOBACCO MANUFACTURES

This major group includes establishments engaged in manufacturing cigarettes, cigars, smoking and chewing tobacco, and snuff, and in stemming and redrying tobacco. The manufacture of insecticides from tobacco byproducts is included in SIC Major Group 28.

211 CIGARETTES

2111 **Cigarettes.**—Establishments engaged in manufacturing cigarettes.

212 CIGARS

2121 **Cigars.**—Establishments engaged in manufacturing cigars. Retail stores producing cigars are classified in trade industries.

213 TOBACCO (CHEWING AND SMOKING) AND SNUFF

2131 **Tobacco (Chewing and Smoking) and Snuff.**—Establishments engaged in manufacturing smoking and chewing tobaccos, and snuff.

214 TOBACCO STEMMING AND REDRYING

2141 **Tobacco Stemming and Redrying.**—Establishments primarily engaged in the stemming and redrying of tobacco. Establishments which sell leaf tobacco as merchant wholesalers, agents, or brokers, and which may be also engaged in stemming tobacco, are classified in SIC Major Group 51. Leaf tobacco warehouses which may be also engaged in stemming tobacco are classified in SIC Major Group 42.

22 TEXTILE MILL PRODUCTS

This major group includes establishments engaged in performing any of the following operations: (1) Preparation of fiber and subsequent manufacturing yarn, thread, braids, twine, and cordage; (2) manufacturing broadwoven fabric, narrow woven fabric, knit fabric, and carpets and rugs from yarn; (3) dyeing and finishing fiber, yarn, fabric, and knit apparel; (4) coating, waterproofing, or otherwise treating fabric; (5) the integrated manufacture of knit apparel and other finished articles from yarn; and (6) the manufacture of felt goods, lace goods, nonwoven fabrics, and miscellaneous textiles.

This classification makes no distinction between the two types of organizations which operate in the textile industry: (1) The "integrated" mill which purchases materials, produces textiles and related articles within the establishment, and sells the finished products; and (2) the "contract" or "commission" mill which processes materials owned by others. Converters or other nonmanufacturing establishments which assign materials to contract mills for processing (other than knitting) are classified in nonmanufacturing industries; establishments which assign yarns to outside contractors or commission knitters for the production of knit products are classified in group 225.

221 BROADWOVEN FABRIC MILLS, COTTON

2211 **Broadwoven Fabric Mills, Cotton.**—Establishments primarily engaged in weaving fabrics over 12 inches in width, wholly or chiefly by weight of cotton. Establishments primarily engaged in weaving cotton carpets and rugs are classified in industry 2271; those tufting carpets and rugs in industry 2272; those making tire cord and fabric in industry 2296; and finishers of cotton broadwoven fabrics in industry 2261.

222 BROAD WOVEN FABRIC MILLS, MANMADE FIBER AND SILK

2221 **Broadwoven Fabric Mills, Manmade Fiber and Silk.**—Establishments primarily engaged in weaving fabrics over 12 inches in width, wholly or chiefly by weight of silk and manmade fibers, including glass. Establishments primarily engaged in weaving carpets and rugs from these fibers are classified in industry 2271; those tufting carpets and rugs from these fibers in industry 2272; those making tire cord and fabric in industry 2296; and finishers of manmade fiber and silk broadwoven goods in industry 2262.

223 BROADWOVEN FABRIC MILLS, WOOL (INCLUDING DYEING AND FINISHING)

2231 **Broadwoven Fabric Mills, Wool (Including Dyeing and Finishing).**—Establishments primarily engaged in

weaving fabrics over 12 inches in width, wholly or chiefly by weight of wool, mohair, or similar animal fibers; those dyeing and finishing all woven wool fabrics or dyeing wool, tops, or yarn; and those shrinking and sponging wool goods for the trade. Establishments primarily engaged in weaving wool carpets and rugs are classified in industry 2271, and those tufting wool carpets and rugs in industry 2272.

224 NARROW FABRICS AND OTHER SMALLWARES MILLS: COTTON, WOOL, SILK, AND MANMADE FIBER

2241 Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Manmade Fiber.—Establishments primarily engaged in weaving or braiding fabrics 12 inches or narrower in width of cotton, wool, silk, and manmade fibers, including glass fibers. Establishments primarily engaged in producing fabric-covered elastic yarn or thread are also included in this industry.

225 KNITTING MILLS

This group includes three types of organizations which operate in the knitting mill industry: (1) The "integrated" mill which purchases materials, produces textiles and related articles within the establishment, and sells the finished products; (2) the "contract" or "commission" mill which processes materials owned by others; and (3) establishments commonly known as jobbers or converters of knit goods which perform the entrepreneurial functions of a manufacturing company, such as buying the raw material, designing and preparing samples, and assigning yarns to others for knitting products on their account.

2251 Women's Full Length and Knee Length Hosiery.—Establishments primarily engaged in knitting, dyeing, or finishing women's and misses' full length and knee length hosiery, both seamless and full-fashioned, and panty hose.

2252 Hosiery, Except Women's Full Length and Knee Length Hosiery.—Establishments primarily engaged in knitting, dyeing, or finishing hosiery except women's and misses' full length and knee length seamless and full-fashioned hosiery and panty hose.

2253 Knit Outerwear Mills.—Establishments primarily engaged in knitting outerwear from yarn or in manufacturing outerwear from knit fabric produced in the same establishment. Establishments primarily engaged in handknitting outerwear for the trade are included in this industry. Establishments primarily engaged in knitting gloves and mittens are classified in industry 2259, and those manufacturing outerwear from purchased knit fabric in SIC Major Group 23.

2254 Knit Underwear Mills.—Establishments primarily engaged in knitting underwear and nightwear from yarn or in manufacturing underwear and nightwear from knit fabric produced in the same establishment. Establishments primarily engaged in manufacturing underwear and nightwear from purchased knit fabric are classified in SIC Major Group 23.

2257 Circular Knit Fabric Mills.—Establishments primarily engaged in knitting circular (tubular) fabric or in dyeing or finishing circular (tubular) knit fabric. Establishments primarily engaged in knitting, dyeing, or finishing warp fabric are classified in industry 2258.

2258 Warp Knit Fabric Mills.—Establishments primarily engaged in knitting warp (flat) fabric or in dyeing or finishing warp (flat) knit fabric. Establishments primarily engaged in knitting, dyeing, or finishing circular fabric are classified in industry 2257.

2259 Knitting Mills, Not Elsewhere Classified.—Establishments primarily engaged in knitting gloves and other articles not elsewhere classified. Establishments primarily engaged in manufacturing woven or knit fabric gloves and mittens from purchased fabrics are classified in industry 2381.

226 DYEING AND FINISHING TEXTILES, EXCEPT WOOL FABRICS AND KNIT GOODS

2261 Finishers of Broadwoven Fabrics of Cotton.—Establishments primarily engaged in finishing purchased cotton broadwoven fabrics or finishing such fabrics on a commission basis. These finishing operations include bleaching, dyeing, printing (roller, screen, flock, plisse), and other mechanical finishing such as preshrinking, calendering, and napping. This industry also includes the shrinking and sponging of cloth for the trade, and chemical finishing for water repellency, fire resistance, and mildew proofing. Establishments primarily engaged in finishing wool broadwoven fabrics are classified in industry 2231; knit goods in group 225; and those coating or impregnating fabrics in industry 2295.

2262 **Finishers of Broadwoven Fabrics of Manmade Fiber and Silk.**—Establishments primarily engaged in finishing purchased manmade fiber and silk broadwoven fabrics or finishing such fabrics on a commission basis. These finishing operations include bleaching, dyeing, printing (roller, screen, flock, plisse), and other mechanical finishing such as preshrinking, calendering, and napping. Establishments primarily engaged in finishing wool broadwoven fabrics are classified in industry 2231; knit goods in group 225; and those coating or impregnating fabrics in industry 2295.

2269 **Finishers of Textiles, Not Elsewhere Classified.**—Establishments primarily engaged in dyeing and finishing textiles, not elsewhere classified, such as bleaching, dyeing, printing, and finishing of raw stock, yarn, braided goods, and narrow fabrics, except wool and knit fabrics. These establishments perform finishing operations on purchased textiles or on a commission basis.

227 FLOOR COVERING MILLS

2271 **Woven Carpets and Rugs.**—Establishments primarily engaged in weaving carpets and rugs from any textile yarn. Important products of this industry include Axminster, Wilton, velvet, and similar woven carpets and rugs; and woven automobile and aircraft floor coverings.

2272 **Tufted Carpets and Rugs.**—Establishments primarily engaged in tufting carpets and rugs from any textile fiber. Important products of this industry include tufted carpets, rugs, scatter rugs, and bathmats and bathmat sets except terry woven. Finishers of these products are also included in this industry.

2279 **Carpets and Rugs, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing rugs, carpets, art squares, floor mattings, needle punch carpeting, and doormats and mattings from twisted paper, grasses, reeds, coir, sisal, jute, or rags. Establishments primarily engaged in manufacturing hard-surface floor coverings, except rubber and cork, are classified in industry 3996.

228 YARN AND THREAD MILLS

2281 **Yarn Spinning Mills: Cotton, Manmade Fibers and Silk.**—Establishments primarily engaged in spinning yarn wholly or chiefly by weight of cotton, manmade fibers, or silk. Establishments primarily engaged in dyeing or finishing purchased yarns or finishing yarns on a commission basis are classified in industry 2269.

2282 **Yarn Texturizing, Throwing, Twisting, and Winding Mills: Cotton, Manmade Fibers and Silk.**—Establishments primarily engaged in texturizing, throwing, twisting, winding or spooling yarn wholly or chiefly by weight of cotton, manmade fibers, or silk. Establishments primarily engaged in dyeing or finishing purchased yarns or finishing yarns on a commission basis are classified in industry 2269.

2283 **Yarn Mills, Wool, Including Carpet and Rug Yarn.**—Establishments primarily engaged in spinning, twisting, winding, or spooling yarn (including carpet and rug yarn) wholly or chiefly by weight of wool, mohair, or similar animal fibers. Establishments primarily engaged in dyeing or finishing purchased wool yarn or finishing wool yarn on a commission basis are classified in industry 2231.

2284 **Thread Mills.**—Establishments primarily engaged in manufacturing thread from natural or manmade fiber except flax (industry 2299) and wool (industry 2283). Important products of this industry include sewing, crochet, darning, embroidery, tatting, handknitting, and other handicraft threads.

229 MISCELLANEOUS TEXTILE GOODS

2291 **Felt Goods, Except Woven Felts and Hats.**—Establishments primarily engaged in manufacturing pressed felt, regardless of fiber, by means of heat, moisture, and pressure; and those making punched felt for rugs, cushions, and other products from hair, jute, wool, or other fibers by the needle loom process. Establishments primarily engaged in manufacturing woven wool felts and wool haircloth are classified in industry 2231, those manufacturing felt hats in group 235, and those manufacturing needle punch carpeting in industry 2279.

2292 **Lace Goods.**—Establishments primarily engaged in manufacturing lace machine products, and those primarily engaged in dyeing and finishing lace goods. Establishments primarily engaged in manufacturing Schiffli machine embroideries are classified in industry 2397. Establishments primarily engaged in manufacturing knitted lace and netting are classified in industry 2258.

2293 Paddings and Upholstery Filling.—Establishments primarily engaged in manufacturing batting, padding, wadding, and filling for upholstery, pillows, quilts, and apparel, from curled hair, cotton-mill waste, moss, hemp tow, flax tow, kapok, and related materials. Establishments primarily engaged in manufacturing wood excelsior pads and wrappers are classified in industry 2429.

2294 Processed Waste and Recovered Fibers and Flock.—Establishments primarily engaged in processing textile mill waste for spinning, padding, batting, or other uses; in recovering textile fibers from clippings and rags; in cutting flock from waste, recovered fibers, or new fiber stock; and in manufacturing oakum and twisted jute packing. Establishments primarily engaged in cleaning and sorting wiping rags or waste are classified in industry 5093.

2295 Coated Fabrics, Not Rubberized.—Establishments primarily engaged in manufacturing coated and impregnated textiles and in the special finishing of textiles, such as varnishing and waxing. Establishments primarily engaged in rubberizing purchased fabrics are classified in industry 3069, and those primarily engaged in dyeing and finishing textiles in group 226.

2296 Tire Cord and Fabric.—Establishments primarily engaged in manufacturing cord and fabric for use in reinforcing rubber tires, industrial belting, fuel cells, and similar uses.

2297 Nonwoven Fabrics.—Establishments primarily engaged in manufacturing nonwoven fabrics (by bonding and/or interlocking of fibers) by mechanical, chemical, thermal, or solvent means or by combinations thereof. Establishments primarily engaged in producing fabrics by the wool felting process are classified in other industries in this major group.

2298 Cordage and Twine.—Establishments primarily engaged in manufacturing rope, cable, cordage, twine, and related products from abaca (Manila), sisal, henequen, hemp, cotton, paper, jute, flax, manmade fibers including glass, and other fibers.

2299 Textile Goods, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing linen goods, jute goods except felt, and other textile goods not elsewhere classified. Establishments primarily engaged in processing textile fibers to prepare them for spinning, such as wool scouring and carbonizing and combing and converting tow to top, are also classified here. Establishments primarily engaged in manufacturing woven felts are classified in industry 2231, nonwoven felts in industry 2291, nonwoven textiles in industry 2297, and cordage and twine in industry 2298.

23 APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

This major group, known as the cutting-up and needle trades, includes establishments producing clothing and fabricating products by cutting and sewing purchased woven or knit textile fabrics and related materials such as leather, rubberized fabrics, plastics, and furs.

Included in the apparel industries are three types of establishments: (1) The "regular" or inside factories, (2) contract factories, and (3) apparel jobbers. The regular factories perform all of the usual manufacturing functions within their own plant; the contract factories manufacture apparel from materials owned by others; and apparel jobbers perform the entrepreneurial functions of a manufacturing company, such as buying raw materials, designing and preparing samples, arranging for the manufacture of the garments from their materials, and selling of the finished apparel.

Custom tailors and dressmakers not operating on a factory basis are classified in industry 5699; establishments which purchase and resell finished garments but do not perform the functions of the apparel jobbers are classified in group 513.

231 MEN'S, YOUTHS', AND BOYS' SUITS, COATS, AND OVERCOATS

2311 Men's, Youths', and Boys' Suits, Coats, and Overcoats.—Establishments primarily engaged in manufacturing men's, youths', and boys' tailored suits, coats, and overcoats. Establishments primarily engaged in manufacturing uniforms (except athletic uniforms) are also included in this industry. Establishments primarily engaged in manufacturing men's work garments are classified in industry 2328.

232 MEN'S, YOUTHS', AND BOYS' FURNISHINGS, WORK CLOTHING, AND ALLIED GARMENTS

2321 Men's, Youths', and Boys' Shirts (Except Work Shirts) and Nightwear.—Establishments primarily

engaged in manufacturing men's, youths', and boys' shirts (including polo and sports shirts) and nightwear, cut and sewed from purchased woven or knit fabric. Establishments primarily engaged in manufacturing work shirts are classified in industry 2328. Knitting mills primarily engaged in manufacturing nightwear are classified in industry 2254, and outerwear in industry 2253.

2322 **Men's, Youths', and Boys' Underwear.**—Establishments primarily engaged in manufacturing men's, youths', and boys' underwear, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing underwear are classified in industry 2254.

2323 **Men's, Youths', and Boys' Neckwear.**—Establishments primarily engaged in manufacturing men's, youths', and boys' neckties, scarfs, and mufflers, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing neckties, scarfs, and mufflers are classified in industry 2253.

2327 **Men's, Youths', and Boys' Separate Trousers.**—Establishments primarily engaged in manufacturing men's, youths', and boys' separate trousers and slacks. Establishments primarily engaged in manufacturing complete suits are classified in industry 2311, and work pants and jeans in industry 2328.

2328 **Men's, Youths', and Boys' Work Clothing.**—Establishments primarily engaged in manufacturing men's, youths', and boys' work shirts, pants, jeans, and other work clothing and washable service apparel.

2329 **Men's, Youths', and Boys' Clothing, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing men's, youths', and boys' clothing not elsewhere classified. Establishments primarily engaged in manufacturing polo and sport shirts from purchased woven or knit materials are classified in industry 2321; separate trousers in industry 2327; work clothing in industry 2328; and leather and sheep lined garments in industry 2386. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

233 WOMEN'S, MISSES', AND JUNIORS' OUTERWEAR

2331 **Women's, Misses', and Juniors' Blouses, Waists, and Shirts.**—Establishments primarily engaged in manufacturing women's, misses', and juniors' blouses, waists, and shirts. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253. Establishments primarily engaged in manufacturing girls', children's, and infants' blouses, waists, and shirts are classified in industry 2361.

2335 **Women's, Misses', and Juniors' Dresses.**—Establishments primarily engaged in manufacturing women's, misses', and juniors' dresses, including ensemble dresses and pants dresses, whether sold by the piece or by the dozen. Establishments primarily engaged in manufacturing girls', children's, and infants' dresses are classified in industry 2361.

2337 **Women's, Misses', and Juniors' Suits, Skirts, and Coats.**—Establishments primarily engaged in manufacturing women's, misses', and juniors' suits, pantsuits, skirts, and coats except furcoats and raincoats. These garments are generally tailored and usually lined. Establishments primarily engaged in manufacturing fur garments are classified in industry 2371, raincoats in industry 2385, and knitting mills primarily engaged in manufacturing knit outerwear in industry 2253.

2339 **Women's, Misses', and Juniors' Outerwear, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing women's, misses', and juniors' outerwear, not elsewhere classified, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

234 WOMEN'S, MISSES', CHILDREN'S, AND INFANTS' UNDERGARMENTS

2341 **Women's, Misses', Children's, and Infants' Underwear and Nightwear.**—Establishments primarily engaged in manufacturing women's, misses', children's, and infants' underwear and nightwear, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing underwear and nightwear are classified in industry 2254.

2342 **Brassieres, Girdles, and Allied Garments.**—Establishments primarily engaged in manufacturing brassieres, girdles, corsets, corset accessories, and allied garments. Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in industry 3842.

235 HATS, CAPS, AND MILLINERY

2351 Millinery.—Establishments primarily engaged in manufacturing women's, misses', children's, and infants' millinery. Establishments primarily engaged in manufacturing millinery braid and trimmings are classified in industry 2396.

2352 Hats and Caps, Except Millinery.—Establishments primarily engaged in manufacturing hats and caps (except millinery) and all hat bodies. Knitting mills primarily engaged in manufacturing caps are classified in industry 2253.

236 GIRLS', CHILDREN'S, AND INFANTS' OUTERWEAR

2361 Girls', Children's, and Infants' Dresses, Blouses, Waists, and Shirts.—Establishments primarily engaged in manufacturing girls', children's, and infants' dresses, blouses, waists, and shirts, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

2363 Girls', Children's, and Infants' Coats and Suits.—Establishments primarily engaged in manufacturing girls', children's, and infants' coats and suits, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

2369 Girls', Children's, and Infants' Outerwear, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing girls', children's, and infants' outerwear, not elsewhere classified, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

237 FUR GOODS

2371 Fur Goods.—Establishments primarily engaged in manufacturing furcoats, and other garments, accessories, and trimmings made of fur. Establishments primarily engaged in manufacturing sheep lined clothing are classified in industry 2386, and those engaged in dyeing and dressing of furs in industry 3999.

238 MISCELLANEOUS APPAREL AND ACCESSORIES

2381 Dress and Work Gloves, Except Knit and All-Leather.—Establishments primarily engaged in manufacturing dress, semidress, and work gloves and mittens, cut and sewed from purchased woven or knit fabric, or these materials combined with leather or plastic. Knitting mills primarily engaged in manufacturing gloves and mittens are classified in industry 2259, establishments primarily engaged in manufacturing leather gloves in industry 3151, those manufacturing rubber gloves in industry 3069, and plastic gloves in industry 3079.

2384 Robes and Dressing Gowns.—Establishments primarily engaged in manufacturing men's and women's robes and dressing gowns.

2385 Raincoats and Other Waterproof Outer Garments.—Establishments primarily engaged in manufacturing raincoats from purchased rubberized fabrics and other waterproof outer garments made from such material as pliofilm and cellophane. Establishments primarily engaged in manufacturing oiled fabric work garments are classified in industry 2328, and those manufacturing vulcanized rubber garments and garments made from rubberized fabrics produced in the same establishment are classified in industry 3069.

2386 Leather and Sheep Lined Clothing.—Establishments primarily engaged in manufacturing leather and sheep lined garments. Establishments primarily engaged in manufacturing leather gloves and mittens are classified in industry 3151, and fur garments in industry 2371.

2387 Apparel Belts.—Establishments primarily engaged in manufacturing men's and women's apparel belts, regardless of material.

2389 Apparel and Accessories, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing suspenders, garters, handkerchiefs, and other apparel, not elsewhere classified, such as academic caps and gowns, vestments, and theatrical costumes.

239 MISCELLANEOUS FABRICATED TEXTILE PRODUCTS

2391 Curtains and Draperies.—Establishments primarily engaged in manufacturing curtains and draperies from

purchased materials. Establishments primarily engaged in manufacturing lace curtains on lace machines are classified in industry 2292.

2392 **Housefurnishings, Except Curtains and Draperies.**—Establishments primarily engaged in manufacturing housefurnishings, such as blankets, bedspreads, sheets, tablecloths, and towels from purchased materials. Establishments primarily engaged in manufacturing curtains and draperies are classified in industry 2391. Establishments producing housefurnishings primarily of fabric woven at the same establishment are classified according to fiber in industries 2211, 2221, or 2231.

2393 **Textile Bags.**—Establishments primarily engaged in manufacturing shipping and other industrial bags from purchased fabric. Establishments primarily engaged in manufacturing plastic bags are classified in industry 2643; laundry, wardrobe, shoe, and other textile housefurnishing bags in industry 2392; and luggage in industry 3161.

2394 **Canvas and Related Products.**—Establishments primarily engaged in manufacturing awnings, tents, and related products from purchased fabric. Establishments primarily engaged in manufacturing canvas bags are classified in industry 2393.

2395 **Pleating, Decorative and Novelty Stitching, and Tucking for the Trade.**—Establishments primarily engaged in pleating, decorative and novelty stitching, and tucking for the trade. Establishments primarily engaged in performing similar services for individuals are classified in service industries. Establishments primarily engaged in manufacturing trimmings are classifled in industry 2396.

2396 **Automotive Trimmings, Apparel Findings, and Related Products.**—Establishments primarily engaged in manufacturing automotive trimmings and apparel findings and related products.

2397 **Schiffli Machine Embroideries.**—Establishments primarily engaged in manufacturing Schiffli machine embroideries.

2399 **Fabricated Textile Products, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing fabricated textile products not elsewhere classified.

24 LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

This major group includes logging camps engaged in cutting timber and pulpwood; merchant sawmills, lath mills, shingle mills, cooperage stock mills, planing mills, and plywood mills and veneer mills engaged in producing lumber and wood basic materials; and establishments engaged in manufacturing finished articles made entirely or mainly of wood or wood substitutes. Certain types of establishments producing wood products are classified elsewhere. For example, furniture and office and store fixtures are classified in SIC Major Group 25; musical instruments, toys, playground equipment, and caskets in SIC Major Group 39. Woodworking in connection with construction in the nature of reconditioning and repair or performed to individual order, is classified in nonmanufacturing industries.

241 LOGGING CAMPS AND LOGGING CONTRACTORS

2411 **Logging Camps and Logging Contractors.**—Logging camps and logging contractors primarily engaged in cutting timber and in producing rough, round, hewn, or riven primary forest or wood raw materials. Independent contractors engaged in estimating or trucking timber, but who perform no cutting operations, are classified in nonmanufacturing industries. Logging and woods operations conducted in combination with sawmills, pulpmills, or other converting establishments, and not separately reported, are classified in their respective industry groups; namely, with sawmills in SIC group 242, veneer and plywood mills in SIC group 243, pulpmills in SIC Major Group 26, and charcoal and wood distillation plants in SIC group 286. Establishments primarily engaged in the collection of bark, sap, gum, and other forest byproducts are classified in SIC Major Group 08.

242 SAWMILLS AND PLANING MILLS

2421 **Sawmills and Planing Mills, General.**—Establishments primarily engaged in sawing rough lumber and timber from logs and bolts, or resawing cants and flitches into lumber, including box lumber and softwood cut stock; planing mills combined with sawmills; and separately operated planing mills which are engaged primarily in producing surfaced

lumber and standard workings or patterns of lumber. This industry includes establishments primarily engaged in sawing lath and railroad ties and in producing tobacco hogshead stock, wood chips, and snow fence lath. Establishments primarily engaged in manufacturing box shook or boxes are classified in SIC group 244; sash, doors, wood molding, window and door frames, and other fabricated millwork in SIC group 243; and hardwood dimension and flooring in industry 2426. Logging camps combined with sawmills, when not separately reported, are included in this industry.

2426 **Hardwood Dimension and Flooring Mills.**—Establishments primarily engaged in manufacturing hardwood dimension lumber and workings therefrom; other hardwood dimension, semifabricated or ready for assembly; hardwood flooring; and wood frames for household furniture. Establishments primarily engaged in manufacturing stairwork, molding, and trim are classified in industry 2431; and those manufacturing textile machinery bobbins, picker sticks, and shuttles in industry 3552.

2429 **Special Product Sawmills, Not Elsewhere Classified.**—Mills primarily engaged in manufacturing excelsior, wood shingles, and cooperage stock; and in sawing special products not elsewhere classified.

243 MILLWORK, VENEER, PLYWOOD, AND STRUCTURAL WOOD MEMBERS

2431 **Millwork.**—Establishments primarily engaged in manufacturing fabricated millwork. Planing mills primarily engaged in producing millwork are included in this industry, but planing mills primarily producing standard workings or patterns of lumber are classified in industry 2421. Establishments primarily manufacturing wood kitchen cabinets and bathroom vanities are classified in industry 2434.

2434 **Wood Kitchen Cabinets.**—Establishments primarily engaged in manufacturing wood kitchen cabinets and wood bathroom vanities.

2435 **Hardwood Veneer and Plywood.**—Establishments primarily engaged in producing commercial hardwood veneer, either face or technical, and those primarily engaged in manufacturing commercial plywood or prefinished hardwood plywood. This includes nonwood backed or faced veneer and nonwood faced plywood from veneer produced in the same establishment or from purchased veneer. Establishments primarily engaged in the production of veneer which is used in the same establishment for the manufacture of end products such as fruit and vegetable baskets and wood boxes are classified in industries 2441 and 2449.

2436 **Softwood Veneer and Plywood.**—Establishments primarily engaged in producing commercial softwood veneer and plywood from veneer produced in the same establishment or from purchased veneer. Establishments primarily engaged in producing commercial hardwood veneer and plywood are classified in industry 2435. Establishments primarily engaged in the production of veneer which is used in the same establishment for the manufacture of end products such as fruit and vegetable baskets and wood boxes are classified in industries 2441 and 2449.

2439 **Structural Wood Members, Not Elsewhere Classified.**—Establishments primarily engaged in producing laminated or fabricated trusses, arches, and other structural members of lumber. Establishments primarily engaged in fabrication on the site of construction are classified in Division C, Construction. Establishments primarily engaged in producing prefabricated wooden buildings, sections, and panels are classified in industry 2452.

244 WOOD CONTAINERS

2441 **Nailed and Lock Corner Wood Boxes and Shook.**—Establishments primarily engaged in manufacturing nailed and lock corner wood boxes (lumber or plywood) and those which also may produce shook for nailed and lock corner boxes.

2448 **Wood Pallets and Skids.**—Establishments primarily engaged in manufacturing wood and wood-metal combination pallets and skids.

2449 **Wood Containers, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing wood containers, not elsewhere classified, such as cooperage, wirebound boxes and crates, and other veneer and plywood containers. Establishments primarily engaged in manufacturing tobacco hogshead stock are classified in industry 2421, and those manufacturing cooperage stock in industry 2429.

245 WOOD BUILDINGS AND MOBILE HOMES

2451 Mobile Homes.—Establishments primarily engaged in manufacturing mobile homes. These mobile homes are generally over 35 feet long, at least 8 feet wide, do not have facilities for storage of water or waste, and are equipped with wheels. These products may also have nonresidential uses such as classrooms or offices. Trailers that are generally 35 feet long or less, 8 feet wide or less, and with self-contained facilities are classified in industry 3792. Portable buildings not equipped with wheels are classified in industry 2452.

2452 Prefabricated Wood Buildings and Components.—Establishments primarily engaged in manufacturing prefabricated wood buildings, sections, and panels. Establishments primarily engaged in fabricating buildings on the site of construction are classified in Division C, Construction.

249 MISCELLANEOUS WOOD PRODUCTS

2491 Wood Preserving.—Establishments primarily engaged in treating wood, sawed or planed in other establishments, with creosote or other preservatives to prevent decay and to protect against fire and insects. This industry also includes the cutting, treating, and selling of poles, posts, and piling, but establishments primarily engaged in manufacturing other wood products, which they may also treat with preservatives, are not included.

2492 Particleboard.—Establishments primarily engaged in manufacturing wood panel products from small wood particles. This includes preparation of small particles of wood, drying, mixing with a synthetic resin binder, and compressing. Pressing may take place in hydraulic presses with heated platens or by extrusion.

2499 Wood Products, Not Elsewhere Classified.—Establishments primarily engaged in turning and shaping wood and manufacturing miscellaneous wood products, not elsewhere classified, from rattan, reed, splint, straw, veneer, veneer strips, wicker, and willow. This industry also includes establishments manufacturing lasts and related products, cork products, hardboard, and wood or metal mirror and picture frames. Establishments primarily engaged in manufacturing particleboard are classified in industry 2492, and those manufacturing pallets and skids in industry 2448.

25 FURNITURE AND FIXTURES

This major group includes establishments engaged in manufacturing household, office, public building, and restaurant furniture; and office and store fixtures. Establishments primarily engaged in the production of millwork are classified in industry 2431; wood kitchen cabinets in industry 2434; cut stone and concrete furniture in SIC Major Group 32; laboratory and hospital furniture in SIC Major Group 38; beauty and barber shop furniture in SIC Major Group 39; and woodworking to individual order or in the nature of reconditioning and repair in nonmanufacturing industries.

251 HOUSEHOLD FURNITURE

2511 Wood Household Furniture, Except Upholstered.—Establishments primarily engaged in manufacturing wood household furniture commonly used in dwellings. This industry also includes establishments manufacturing camp furniture. Establishments primarily engaged in manufacturing upholstered furniture are classified in industry 2512; reed and rattan furniture in industry 2519; television, radio, phonograph, and sewing machine cabinets in industry 2517; and kitchen cabinets and bathroom vanities in industry 2434.

2512 Wood Household Furniture, Upholstered.—Establishments primarily engaged in manufacturing upholstered furniture on wood frames. Shops primarily engaged in reupholstering furniture, or upholstering frames to individual order, are classified in nonmanufacturing industries. Establishments primarily engaged in manufacturing dual-purpose sleep furniture, such as studio couches, sofa beds, and chair beds, are classified in industry 2515, regardless of the material used in the frame. Establishments primarily engaged in manufacturing wood frames for upholstered furniture are classified in industry 2426.

2514 Metal Household Furniture.—Establishments primarily engaged in manufacturing padded or plain metal household furniture of a type commonly used in dwellings. Establishments primarily engaged in manufacturing dual-purpose sleep furniture, such as studio couches, sofa beds, and chair beds, are classified in industry 2515, regardless of the material used in the frame.

2515 **Mattresses and Bedsprings.**—Establishments primarily engaged in manufacturing innerspring mattresses, box spring mattresses, and noninnerspring mattresses containing felt, form rubber, urethane, hair, or any other filling material; and assembled wire springs (fabric, coil, or box) for use on beds, couches, and cots. This industry also includes establishments primarily engaged in manufacturing dual-purpose sleep furniture, such as studio couches, sofa beds, and chair beds, regardless of the material used in the frame. Establishments primarily engaged in manufacturing automobile seats and backs are classified in industry 2531; individual wire springs in industry 3495; and paddings and upholstery filling in industry 2293.

2517 **Wood Television, Radio, Phonograph, and Sewing Machine Cabinets.**—Establishments primarily engaged in manufacturing wood cabinets for radios, television sets, phonographs, and sewing machines.

2519 **Household Furniture, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing reed, rattan, and other wicker furniture, plastics and fiberglass household furniture and cabinets, and household furniture not elsewhere classified.

252 OFFICE FURNITURE

2521 **Wood Office Furniture.**—Establishments primarily engaged in manufacturing wood office furniture, whether padded, upholstered, or plain.

2522 **Metal Office Furniture.**—Establishments primarily engaged in manufacturing metal office furniture, whether padded or plain. Establishments primarily engaged in manufacturing safes and vaults are classified in industry 3499.

253 PUBLIC BUILDING AND RELATED FURNITURE

2531 **Public Building and Related Furniture.**—Establishments primarily engaged in manufacturing furniture for schools, theaters, assembly halls, churches, and libraries. Establishments primarily engaged in manufacturing seats for public conveyances, as well as seats for automobiles and aircraft, are included in this industry. Establishments primarily engaged in manufacturing stone furniture are classified in industry 3281, and concrete furniture in industry 3272.

254 PARTITIONS, SHELVING, LOCKERS, AND OFFICE AND STORE FIXTURES

2541 **Wood Partitions, Shelving, Lockers, and Office and Store Fixtures.**—Establishments primarily engaged in manufacturing wood shelving, lockers, office and store fixtures, prefabricated partitions, plastic laminated fixture tops, and related fabricated products. Establishments primarily engaged in manufacturing refrigerated cabinets, show cases, and display cases are classified in industry 3585, and safes and vaults in industry 3499.

2542 **Metal Partitions, Shelving, Lockers, and Office and Store Fixtures.**—Establishments primarily engaged in manufacturing metal shelving, storage racks, lockers, office and store fixtures, prefabricated partitions, and related fabricated products. Establishments primarily engaged in manufacturing refrigerated cabinets, show cases, and display cases are classified in industry 3585, and safes and vaults in industry 3499.

259 MISCELLANEOUS FURNITURE AND FIXTURES

2591 **Drapery Hardware and Window Blinds and Shades.**—Establishments primarily engaged in manufacturing curtain and drapery rods, poles, and fixtures; and venetian blinds and other window blinds and shades, regardless of the materials used, except canvas shades and awnings (industry 2394).

2599 **Furniture and Fixtures, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing furniture and fixtures, not elsewhere classified, including furniture specially designed for use in restaurants, bars, cafeterias, bowling establishments, and ships.

26 PAPER AND ALLIED PRODUCTS

This major group includes the manufacture of pulps from wood and other cellulose fibers, and from rags; the manufacture of paper and paperboard; and the manufacture of paper and paperboard into converted products such as paper coated off the paper machine, paper bags, paper boxes and envelopes. Certain types of converted paper products are classified elsewhere, such as abrasive paper in industry 3291, carbon paper in industry 3955, and photosensitized and blueprint paper in industry 3861.

261 PULPMILLS

2611 Pulpmills.—Establishments primarily engaged in manufacturing pulp from wood or from other materials such as rags, linters, wastepaper, and straw. Logging camps operated by pulpmills, and not separately reported, are also included in this industry. Establishments primarily engaged in cutting pulpwood are classified in industry 2411; and pulpmills combined with papermills or paperboard mills, and not separately reported, are classified with the latter in industries 2621 and 2631, respectively.

262 PAPERMILLS, EXCEPT BUILDING PAPERMILLS

2621 Papermills, Except Building Papermills.—Establishments primarily engaged in manufacturing paper (except building paper—industry 2661) from woodpulp and other fibers, and which may also manufacture converted paper products. Pulpmills combined with papermills, and not separately reported, are also included in this industry; where separately reported, they are classified in industry 2611. Establishments primarily engaged in manufacturing converted paper products from purchased paper stock are classified in SIC groups 264 or 265.

263 PAPERBOARD MILLS

2631 Paperboard Mills.—Establishments primarily engaged in manufacturing paperboard, including paperboard coated on the paperboard machine, from woodpulp and other fibers; and which may also manufacture converted paperboard products. Pulpmills combined with paperboard mills, and not separately reported, are also included in this industry; where separately reported, they are classified in industry 2611. Establishments primarily engaged in manufacturing converted paperboard products from purchased paperboard are classified in SIC groups 264 or 265, and building board in industry 2661.

264 CONVERTED PAPER AND PAPERBOARD PRODUCTS, EXCEPT CONTAINERS AND BOXES

2641 Paper Coating and Glazing.—Establishments primarily engaged in manufacturing coated, glazed, or varnished paper from purchased paper. Also included are establishments primarily manufacturing pressure sensitive tape with backing of any material other than rubber. Establishments primarily engaged in manufacturing carbon paper are classified in industry 3955, and photographic and blueprint paper in industry 3861.

2642 Envelopes.—Establishments primarily engaged in manufacturing envelopes of any description from purchased paper and paperboard. Establishments primarily engaged in manufacturing papeteries (boxed stationery) are classified in industry 2648.

2643 Bags, Except Textile Bags.—Establishments primarily engaged in manufacturing bags from purchased paper, cellophane, acetate, polyethylene, polypropylene, pliofilm, foil, and similar sheet or film materials.

2645 Die-Cut Paper and Paperboard and Cardboard.—Establishments primarily engaged in diecutting purchased paper and paperboard; and in manufacturing cardboard by laminating, lining, or surface coating paperboard. Establishments primarily engaged in laminating building paper or building board from purchased paper or board are classified in industry 2649.

2646 Pressed and Molded Pulp Goods.—Establishments primarily engaged in manufacturing all kinds of pressed and molded pulp goods, including papier-mache articles other than statuary and art goods (industry 3299). Establishments primarily engaged in manufacturing plates and utensils from paper are classified in industry 2654.

2647 Sanitary Paper Products.—Establishments primarily engaged in manufacturing, from purchased paper, sanitary paper products, such as facial tissues and handkerchiefs, table napkins, toilet paper, towels, disposable diapers, and sanitary napkins and tampons.

2648 Stationery, Tablets, and Related Products.—Establishments primarily engaged in manufacturing stationery, tablets, looseleaf fillers, and related items from purchased paper. Establishments primarily engaged in manufacturing envelopes are classified in industry 2642.

2649 Converted Paper and Paperboard Products, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing from purchased paper or paperboard miscellaneous converted paper or paperboard

products not elsewhere classified. Establishments primarily engaged in manufacturing sanitary paper products from purchased paper are classified in industry 2647. The paper stock used for wallpaper, called "hanging paper," is classified in industry 2621. Establishments primarily engaged in manufacturing stationery, tablets, and related products are classified in industry 2648.

265 PAPERBOARD CONTAINERS AND BOXES

2651 Folding Paperboard Boxes.—Establishments primarily engaged in manufacturing folding paperboard boxes from purchased paperboard.

2652 Set-up Paperboard Boxes.—Establishments primarily engaged in manufacturing set-up paperboard boxes from purchased paperboard.

2653 Corrugated and Solid Fiber Boxes.—Establishments primarily engaged in manufacturing corrugated and solid fiber boxes and related products from purchased paperboard of fiber stock. Important products of this industry include corrugated and solid fiberboard boxes, pads, partitions, display items, pallets, single-face products, and corrugated sheets.

2654 Sanitary Food Containers.—Establishments primarily engaged in manufacturing food containers from special food board. Important products of this industry include fluid milk containers; folding paraffined cartons for butter, margarine, and shortening; ice cream containers; frozen food containers; liquid tight containers; round nested food containers; paper cups for hot or cold drinks; pails for food and ice cream; and stamped plates, dishes, spoons, and similar products. Establishments primarily engaged in manufacturing similar items of plastics materials are classified in industry 3079.

2655 Fiber Cans, Tubes, Drums, and Similar Products.—Establishments primarily engaged in manufacturing from purchased materials fiber cans, cones, drums, similar products with or without metal ends, and vulcanized fiber boxes.

266 BUILDING PAPER AND BUILDING BOARD MILLS

2661 Building Paper and Building Board Mills.—Establishments primarily engaged in manufacturing building paper and building board from woodpulp and other fibrous materials. Pulpmills combined with building paper and building board mills, and not separately reported, are also included in this industry; where separately reported, they are classified in industry 2611.

27 PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

This major group includes establishments engaged in printing by one or more of the common processes, such as letterpress, lithography, gravure, or screen; and those establishments which perform services for the printing trade, such as bookbinding, typesetting, engraving, photoengraving, and electrotyping. This major group also includes establishments engaged in publishing newspapers, books, and periodicals, regardless of whether or not they do their own printing. News syndicates are classified in service industries, (industry 7351) and textile printing and finishing in SIC Major Group 22.

271 NEWSPAPERS: PUBLISHING, PUBLISHING AND PRINTING

2711 Newspapers: Publishing, Publishing and Printing.—Establishments primarily engaged in publishing newspapers or in publishing and printing newspapers. These establishments carry on the various operations necessary for issuing newspapers, including the gathering of news and the preparation of editorials and advertisements, but may or may not perform their own printing. Commercial printing is frequently carried on by establishments engaged in publishing and printing newspapers, but, even though the commercial printing may be of major importance, such establishments are included in this industry. Establishments not engaged in publishing newspapers, but which print or lithograph newspapers for publishers, are classified in SIC group 275. News syndicates are classified in service industries (industry 7351).

272 PERIODICALS: PUBLISHING, PUBLISHING AND PRINTING

2721 Periodicals: Publishing, Publishing and Printing.—Establishments primarily engaged in publishing periodicals or in preparing, publishing, and printing

periodicals. These establishments carry on the various operations necessary for issuing periodicals, but may or may not perform their own printing. Establishments not engaged in publishing periodicals, but which print or lithograph periodicals for publishers, are classified in SIC group 275.

273 BOOKS

2731 Books: Publishing, Publishing and Printing.—Establishments primarily engaged in publishing only, or in publishing and printing books and pamphlets. Establishments primarily engaged in printing or in printing and binding (but not publishing) books and pamphlets are classified in industry 2732.

2732 Book Printing.—Establishments primarily engaged in printing only or in printing and binding books and pamphlets, but not engaged in publishing. Establishments primarily engaged in publishing, or in publishing and printing books and pamphlets, are classified in industry 2731. Establishments engaged in both printing and binding books, but primarily binding books printed elsewhere, are classified in industry 2789.

274 MISCELLANEOUS PUBLISHING

2741 Miscellaneous Publishing.—Establishments primarily engaged in miscellaneous publishing activities, not elsewhere classified, whether or not engaged in printing. Establishments primarily engaged in offering financial, credit, or other business services, and which may publish directories as part of this service, are not included in this industry but are classified in service industries.

275 COMMERCIAL PRINTING

2751 Commercial Printing, Letterpress and Screen.—Establishments primarily engaged in letterpress and screen commercial or job printing, including flexographic. This industry includes general printing shops, as well as shops specializing in printing newspapers and periodicals for others, and those which specialize in screen printing. Establishments primarily engaged in printing books, without publishing, are classified in industry 2732, and greeting cards in industry 2771. Establishments primarily engaged in printing from lithographic plates are classified in industry 2752, and gravure and rotogravure printing in industry 2754.

2752 Commercial Printing, Lithographic.—Establishments primarily engaged in printing by the lithographic process. The greater part of the work in this industry is performed on a job or custom basis; but, in some cases, lithographed calendars, maps, posters, decalcomanias, etc., are made for sale. Offset printing, photo-offset printing, and photolithographing are also included in this industry. Establishments primarily engaged in lithographing books and pamphlets, without publishing, are classified in industry 2732, and greeting cards in industry 2771. Establishments primarily engaged in preparing lithographic plates and in related services are classified in industry 2795.

2753 Engraving and Plate Printing.—Establishments primarily engaged in engraving and etching steel, copper, wood, or rubber plates; in using these plates to print stationery, visiting and other cards, invitations, maps, etc.; and in making woodcuts for use in printing illustrations, posters, etc. Engraving for purposes other than printing is classified in industry 3479.

2754 Commercial Printing, Gravure.—Establishments primarily engaged in gravure printing.

276 MANIFOLD BUSINESS FORMS

2761 Manifold Business Forms.—Establishments primarily engaged in designing and printing, by any process, special forms for use in the operation of a business, in single and multiple sets, including carbonized or interleaved with carbon or otherwise processed for multiple reproduction.

277 GREETING CARD PUBLISHING

2771 Greeting Card Publishing.—Establishments primarily engaged in the designing, publishing, and printing by any process of greeting cards for all occasions.

278 BLANKBOOKS, LOOSELEAF BINDERS, AND BOOKBINDING AND RELATED WORK

2782 Blankbooks, Looseleaf Binders, and Devices.—Establishments primarily engaged in manufacturing blankbooks, looseleaf devices, and library binders; and in ruling paper.

2789 Bookbinding and Related Work.—Establishments primarily engaged in edition, trade, job, and library bookbinding; in book or paper bronzing, gilding, and edging; in map and sample mounting; and other services related to bookbinding. Establishments primarily binding books printed elsewhere are classified in this industry, but those primarily binding books printed in the same establishment are classified in SIC group 273.

279 SERVICE INDUSTRIES FOR THE PRINTING TRADE

2791 Typesetting.—Establishments primarily engaged in typesetting for the trade, including advertisement typesetting.

2793 Photoengraving.—Establishments primarily engaged in preparing photoengraved plates (halftones and linecuts). These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others.

2794 Electrotyping and Stereotyping.—Establishments primarily engaged in preparing electrotype and stereotype plates. These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others.

2795 Lithographic Platemaking and Related Services.—Establishments primarily engaged in making lithographic plates and positives or negatives from which lithographic plates are made, and in related services. Establishments primarily engaged in printing by the lithographic process are classified in industry 2752.

28 CHEMICALS AND ALLIED PRODUCTS

This major group includes establishments producing basic chemical and establishments manufacturing products by predominantly chemical processes. Establishments classified in this major group manufacture three general classes of products: (1) Basic chemicals such as acids, alkalies, salts, and organic chemicals; (2) chemical products to be used in further manufacture such as synthetic fibers, plastics materials, dry colors, and pigments; (3) finished chemical products to be used for ultimate consumption such as drugs, cosmetics, and soaps; or to be used as materials or supplies in other industries, such as paints, fertilizers, and explosives. The mining of natural rock salt is classified in mining industries. Establishments primarily engaged in manufacturing nonferrous metals and high-percentage ferroalloys are classified in SIC Major Group 33; silicon carbide in SIC Major Group 32; baking powder, other leavening compounds, and starches in SIC Major Group 20; and artists' colors in SIC Major Group 39. Establishments primarily engaged in packaging, repackaging, and bottling of purchased chemical products, but not engaged in manufacturing chemicals and allied products, are classified in trade industries.

281 INDUSTRIAL INORGANIC CHEMICALS

This group includes establishments primarily engaged in manufacturing basic industrial inorganic chemicals. Establishments primarily engaged in manufacturing formulated agricultural pesticides are classified in industry 2879; medicinal chemicals, drugs, and medicines in industry 2833; and soap and cosmetics in SIC group 284.

2812 Alkalies and Chlorine.—Establishments primarily engaged in manufacturing alkalies and chlorine.

2813 Industrial Gases.—Establishments primarily engaged in manufacturing gases for sale in compressed, liquid, and solid forms. Establishments primarily engaged in manufacturing fluorine and sulfur dioxide are classified in industry 2819; household ammonia in industry 2842, and other ammonia in industry 2873; and cholorine in industry 2812. Distributors of industrial gases and establishments primarily engaged in shipping liquid oxygen are classified in trade.

2816 Inorganic Pigments.—Establishments primarily engaged in manufacturing inorganic pigments. Important products of this industry include black pigments (except carbon black, industry 2895), white pigments, and color pigments. Organic color pigments, except animal black and bone black, are classified in industry 2865.

2819 Industrial Inorganic Chemicals, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing industrial inorganic chemicals not elsewhere classified. Important products of this industry include inorganic salts of sodium (excluding refined sodium chloride), potassium, aluminum, calcium, chromium, magnesium, mercury, nickel, silver, tin; inorganic compounds such as alums, calcium carbide, hydrogen peroxide, sodium silicate,

ammonia compounds (except fertilizers), rare earth metal salts and elemental bromine, fluorine, iodine, phosphorus, and alkali metals (sodium, potassium, lithium, etc.). Establishments primarily engaged in mining, milling, or otherwise preparing natural potassium, sodium, or boron compounds (other than common salt) are classified in industry 1474. Establishments primarily engaged in manufacturing household bleaches are classified in industry 2842; phosphoric acid in industry 2874; and nitric acid, anhydrous ammonia, and other nitrogenous fertilizer materials in industry 2873.

282 PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC AND OTHER MANMADE FIBERS, EXCEPT GLASS

This group includes chemical establishments primarily engaged in manufacturing plastics materials and synthetic resins, synthetic rubbers, and cellulosic and manmade organic fibers. Establishments primarily engaged in the manufacture of rubber products and those primarily engaged in the compounding of purchased resins or the fabrication of plastics sheets, rods, and miscellaneous plastics products are classified in SIC Major Group 30; and textile mills primarily engaged in throwing, spinning, weaving, or knitting textile products from manufactured fibers are classified in SIC Major Group 22.

2821 **Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers.**—Establishments primarily engaged in manufacturing synthetic resins, plastics materials, and nonvulcanizable elastomers. Important products of this industry include: Cellulose plastic materials; phenolic and other tar acid resins; urea and melamine resins; vinyl resins; styrene resins; alkyd resins; acrylic resins; polyethylene resins; polypropylene resins; rosin modified resins; coumarone-indene and petroleum polymer resins; and miscellaneous resins including polyamide resins, silicones, polyisobutylenes, polyesters, polycarbonate resins, acetal resins, fluorohydrocarbon resins; and casein plastics. Establishments primarily engaged in manufacturing fabricated plastics products or plastics film, sheet, rod, nontextile monofilaments and regenerated cellulose products, and vulcanized fiber are classified in industry 3079, whether from purchased resins or from resins produced in the same plant. Establishments primarily engaged in compounding purchased resins are also classified in industry 3079. Establishments primarily manufacturing adhesives are classified in industry 2891.

2822 **Synthetic Rubber (Vulcanizable Elastomers).**—Establishments primarily engaged in manufacturing synthetic rubber by polymerization or copolymerization. An elastomer for the purpose of this classification is a rubber-like material capable of vulcanization, such as copolymers of butadiene and styrene, or butadiene and acrylonitrile, polybutadienes, chloroprene rubbers, and isobutylene-isoprene copolymers. Butadiene copolymers containing less than 50% butadiene are classified in industry 2821. Natural chlorinated rubbers and cyclized rubbers are considered as semifinished products and are classified in industry 3069.

2823 **Cellulosic Manmade Fibers.**—Establishments primarily engaged in manufacturing cellulosic fibers (including cellulose acetate and regenerated cellulose such as rayon by the viscose or cuprammonium process) in the form of monofilament, yarn, staple, or tow suitable for further manufacturing on spindles, looms, knitting machines, or other textile processing equipment. Establishments primarily engaged in manufacturing textile glass fibers are classified in industry 3229.

2824 **Synthetic Organic Fibers, Except Cellulosic.**—Establishments primarily engaged in manufacturing synthetic organic fibers, except cellulosic (including those of regenerated proteins, and of polymers or copolymers of such components as vinyl chloride, vinylidene chloride, linear esters, vinyl alcohols, acrylonitrile, ethylenes, amides, and related polymeric materials) in the form of monofilament, yarn, staple, or tow suitable for further manufacturing on spindles, looms, knitting machines, or other textile processing equipment. Establishments primarily engaged in manufacturing textile glass fibers are classified in industry 3229.

283 DRUGS

This group includes establishments primarily engaged in manufacturing, fabricating, or processing medicinal chemicals and pharmaceutical products. Also included in this group are establishments primarily engaged in the grading, grinding, and milling of botanicals.

2831 **Biological Products.**—Establishments primarily engaged in the production of bacterial and virus vaccine, toxoids and analogous products (such as allergenic extracts), serums, plasmas, and other blood derivatives for human or veterinary use.

2833 **Medicinal Chemicals and Botanical Products.**—Establishments primarily engaged in (1) manufacturing bulk organic and inorganic medicinal chemicals and their derivatives; and (2) processing (grading, grinding, and milling) bulk botanical drugs and herbs. Establishments primarily engaged in manufacturing agar-agar and similar products of natural origin, endocrine products, manufacturing or isolating basic vitamins, and isolating active medicinal principals such as alkaloids from botanical drugs and herbs are also included in this industry.

2834 **Pharmaceutical Preparations.**—Establishments primarily engaged in manufacturing, fabricating, or processing drugs in pharmaceutical preparations for human or veterinary use. The greater part of the products of these establishments are finished in the form intended for final consumption, such as ampoules, tablets, capsules, vials, ointments, medicinal powders, solutions, and suspensions. Products of this industry consist of two important lines, namely: (1) Pharmaceutical preparations promoted primarily to the dental, medical, or veterinary professions; and (2) pharmaceutical preparations promoted primarily to the public.

284 SOAP, DETERGENTS, AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS

This group includes establishments primarily engaged in manufacturing soap and other detergents and in producing glycerin from vegetable and animal fats and oils; specialty cleaning, polishing, and sanitation preparations; and surface active preparations used as emulsifiers, wetting agents, and finishing agents, including sulfonated oils; and perfumes, cosmetics, and other toilet preparations.

2841 **Soap and Other Detergents, Except Specialty Cleaners.**—Establishments primarily engaged in manufacturing soap, synthetic organic detergents, inorganic alkaline detergents, or any combination thereof, and establishments producing crude and refined glycerin from vegetable and animal fats and oils. Establishments primarily engaged in manufacturing shampoos or shaving products, whether from soap or synthetic detergents, are classified in industry 2844; and synthetic glycerin in industry 2869.

2842 **Specialty Cleaning, Polishing, and Sanitation Preparations.**—Establishments primarily engaged in manufacturing furniture, metal, and other polishes; waxes and dressings for fabricated leather and other materials; household, institutional and industrial plant disinfectants, deodorants; dry cleaning preparations; household bleaches; and other sanitation preparations. Establishments primarily manufacturing household pesticidal preparations are classified in industry 2879.

2843 **Surface Active Agents, Finishing Agents, Sulfonated Oils and Assistants.**—Establishments primarily engaged in producing surface active preparations for use as wetting agents, emulsifiers, and penetrants. Establishments engaged in producing sulfonated oils and fats and related products are also included.

2844 **Perfumes, Cosmetics, and Other Toilet Preparations.**—Establishments primarily engaged in manufacturing perfumes (natural and synthetic), cosmetics, and other toilet preparations. This industry also includes establishments primarily engaged in blending and compounding perfume bases; and those manufacturing shampoos and shaving products, whether from soap or synthetic detergents. Establishments primarily engaged in manufacturing synthetic perfume and flavoring materials are classified in industry 2869, and essential oils in industry 2899.

285 PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS

2851 **Paints, Varnishes, Lacquers, Enamels, and Allied Products.**—Establishments primarily engaged in manufacturing paints (in paste and ready-mixed form); varnishes; lacquers; enamels and shellac; putties, wood fillers and sealers; paint and varnish removers; and paint brush cleaners and allied paint products. Establishments primarily engaged in manufacturing carbon black are classified in industry 2895; boneblack, lampblack, and inorganic color pigments in industry 2816; organic color pigments in industry 2865; plastics materials in industry 2821; printing ink in industry 2893; calking compounds and sealants in industry 2891; and artists' paints in industry 3952.

286 INDUSTRIAL ORGANIC CHEMICALS

Establishments primarily engaged in manufacturing industrial organic chemicals. Important products of this group include: (1) Noncyclic organic chemicals such as

acetic, chloroacetic, adipic, formic, oxalic and tartaric acids and their metallic salts; chloral, formaldehyde, and methylamine; (2) solvents such as amyl, butyl, and ethyl alcohols; methanol; amyl, butyl and ethyl acetates; ethel ether, ethylene glycol ether and diethylene glycol ether; acetone, carbon disulfide, and chlorinated solvents such as carbon tetrachloride, perchloroethylene and trichloroethylene; (3) polyhydric alcohols such as ethylene glycol, sorbitol, pentaerythritol, synthetic glycerin; (4) synthetic perfume and flavoring materials such as coumarin, methyl salicylate, saccharin, citral, citronellal, synthetic geraniol, ionone, terpineol, and synthetic vanillin; (5) rubber processing chemicals such as accelerators and antioxidants, both cyclic and acyclic; (6) plasticizers, both cyclic and acyclic, such as esters of phosphoric acid, phthalic anhydride, adipic acid, lauric acid, oleic acid, sebacic acid, and stearic acid; (7) synthetic tanning agents such as naphthalene sulfonic acid condensates, (8) chemical warfare gases; (9) esters, amines, etc., of polyhydric alcohols and fatty and other acids; (10) cyclic crudes and intermediates; (11) cyclic dyes and organic pigments; and (12) natural gum and wood chemicals. Establishments primarily engaged in manufacturing plastics materials and nonvulcanizable elastomers are classified in industry 2821; synthetic rubber in industry 2822; essential oils in industry 2899; rayon and other synthetic fibers in industries 2823 and 2824; specialty cleaning, polishing and sanitation preparations in industry 2842; paints in industry 2851; and inorganic pigments in industry 2816. Distilleries engaged in the manufacture of grain alcohol for beverage purposes are classified in industry 2085.

2861 **Gum and Wood Chemicals.**—Establishments primarily engaged in manufacturing hardwood and softwood distillation products, wood and gum naval stores, charcoal, natural dyestuffs, and natural tanning materials. Establishments primarily engaged in manufacturing synthetic tanning materials and synthetic organic chemicals are classified in industry 2869, and synthetic organic dyes in industry 2865.

2865 **Cyclic (Coal Tar) Crudes, and Cyclic Intermediates, Dyes, and Organic Pigments (Lakes and Toners).**—Establishments primarily engaged in manufacturing coal tar crudes and cyclic organic intermediates, dyes, color lakes, and toners. Important products of this industry include: (1) Derivatives of benzene, toluene, naphthaline, anthracene, pyridine, carbazole, and other cyclic chemical products; (2) synthetic organic dyes; (3) synthetic organic pigments; and (4) cyclic (coal tar) crudes, such as light oils and light oil products; coal tar acids; and products of medium and heavy oil such as creosote oil, naphthalene, anthracene, and their higher homologues, and tar. Establishments primarily engaged in manufacturing coal tar crudes in chemical recovery ovens are classified in industry 3312, and petroleum refineries which produce such products in industry 2911.

2869 **Industrial Organic Chemicals, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing industrial organic chemicals not elsewhere classified. Important products of this industry include: (1) Noncyclic organic chemicals such as acetic, chloroacetic, adipic, formic, oxalic and tartaric acids and their metallic salts; chloral, formaldehyde and methylamine; (2) solvents such as amyl, butyl, and ethyl alcohols; methanol; amyl, butyl and ethyl acetates; ethel ether, ethylene glycol ether and diethylene glycol ether; acetone, carbon disulfide and chlorinated solvents such as carbon tetrachloride, perchloroethylene and trichloroethylene; (3) polyhydric alcohols such as ethylene glycol, sorbitol, pentaerythritol, synthetic glycerin; (4) synthetic perfume and flavoring materials such as coumarin, methyl salicylate, saccharin, citral, citronellal, synthetic geraniol, ionone, terpineol, and synthetic vanillin; (5) rubber processing chemicals such as accelerators and antioxidants, both cyclic and acyclic; (6) plasticizers, both cyclic and acyclic, such as esters of phosphoric acid, phthalic anhydride, adipic acid, lauric acid, oleic acid, sebacic acid, and stearic acid; (7) synthetic tanning agents such as naphthalene sulfonic acid condensates; (8) chemical warfare gases; and (9) esters, amines, etc., of polyhydric alcohols and fatty and other acids. Establishments primarily engaged in manufacturing plastics materials and nonvulcanizable elastomers are classified in industry 2821; synthetic rubber in industry 2822; essential oils in industry 2899; wood distillation products, naval stores, and natural dyeing and tanning materials in industry 2861; rayon and other synthetic fibers in industries 2823 and 2824; specialty cleaning, polishing, and sanitation preparations in industry 2842; paints in industry 2851; urea in industry 2873; organic pigments in industry 2865; and inorganic pigments in industry 2816. Distilleries engaged in the manufacture of grain alcohol for beverage purposes are classified in industry 2085.

287 AGRICULTURAL CHEMICALS

This group includes establishments primarily engaged in manufacturing nitrogenous and phosphatic basic fertilizers, mixed fertilizers, pesticides, and other agricultural chemicals. Establishments primarily engaged in manufacturing basic chemicals which require further processing or formulation before use as agricultural pest-control agents are classified in SIC group 281 or 286.

2873 Nitrogenous Fertilizers.—Establishments primarily engaged in manufacturing nitrogenous fertilizer material or mixed fertilizers from nitrogenous materials produced in the same establishment. Included are ammonia fertilizer compounds and anhydrous ammonia, nitric acid, ammonium nitrate, ammonium sulfate and nitrogen solutions, urea, and natural organic fertilizers (except compost) and mixtures.

2874 Phosphatic Fertilizers.—Establishments primarily engaged in manufacturing phosphatic fertilizer materials or mixed fertilizers from phosphatic materials produced in the same establishment. Included are phosphoric acid; normal, enriched, and concentrated superphosphates; ammonium phosphates; nitrophosphates; and calcium metaphosphates.

2875 Fertilizers, Mixing Only.—Establishments primarily engaged in mixing fertilizers from purchased fertilizer materials.

2879 Pesticides and Agricultural Chemicals, Not Elsewhere Classified.—Establishments primarily engaged in the formulation and preparation of ready-to-use agricultural and household pest-control chemicals, including insecticides, fungicides, and herbicides from technical chemicals or concentrates; and the production of concentrates which require further processing before use as agricultural pesticides. This industry also includes establishments primarily engaged in manufacturing or formulating agricultural chemicals, not elsewhere classified, such as minor or trace elements and soil conditioners. Establishments primarily engaged in manufacturing basic or technical agricultural pest-control chemicals including insecticides, fungicides, and herbicides such as lead and calcium arsenates, and copper sulfate are classified in SIC group 281, and DDT, BHC, 2,4-D carbamates, etc., in SIC group 286. Establishments primarily engaged in manufacturing agricultural lime products are classified in SIC Major Group 32.

289 MISCELLANEOUS CHEMICAL PRODUCTS

2891 Adhesives and Sealants.—Establishments primarily engaged in manufacturing industrial and household adhesives, glues, calking compounds, sealants, and linoleum, tile, and rubber cements from vegetable, animal, or synthetic plastics materials, purchased or produced in the same establishment. Establishments primarily engaged in manufacturing gelatin and sizes are classified in industry 2899, and vegetable gelatin or agar-agar in industry 2833.

2892 Explosives.—Establishments primarily engaged in manufacturing explosives. Establishments primarily engaged in manufacturing ammunition for small arms are classified in industry 3482, and fireworks in industry 2899.

2893 Printing Ink.—Establishments primarily engaged in manufacturing printing ink, gravure ink, screen process ink, and lithographic ink.

2895 Carbon Black.—Establishments primarily engaged in manufacturing carbon black (channel and furnace black).

2899 Chemicals and Chemical Preparations, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing miscellaneous chemical preparations, not elsewhere classified, such as fatty acids, essential oils, gelatin (except vegetable), sizes, bluing, laundry sours, writing and stamp pad inks; industrial compounds, such as boiler and heat insulating compounds, metal, oil and water treating compounds, and waterproofing compounds and chemical supplies for foundries. Establishments primarily engaged in manufacturing vegetable gelatin (agar-agar) are classified in industry 2833; and dessert preparations based on gelatin in industry 2099.

29 PETROLEUM REFINING AND RELATED INDUSTRIES

This major group includes establishments primarily engaged in petroleum refining, manufacturing paving and roofing materials, and compounding lubricating oils and greases from purchased materials. Establishments manufacturing and distributing gas to consumers are classified in public utilities industries, and those primarily engaged in producing coke and byproducts in SIC Major Group 33.

291 PETROLEUM REFINING

2911 Petroleum Refining.—Establishments primarily engaged in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, and other products from crude petroleum and its fractionation products, through straight distillation of crude oil, redistillation of unfinished petroleum derivatives, cracking, or other processes. Establishments primarily engaged in producing natural gasoline from natural gas are classified in mining industries. Those manufacturing lubricating oils and greases by blending and compounding purchased materials are included in industry 2992. Establishments primarily re-refining used lubricating oils are classified in industry 2992.

295 PAVING AND ROOFING MATERIALS

2951 Paving Mixtures and Blocks.—Establishments primarily engaged in manufacturing asphalt and tar paving mixtures; and paving blocks made of asphalt, creosoted wood, and various compositions of asphalt or tar with other materials. Establishments primarily engaged in manufacturing brick, concrete, granite, and stone paving blocks are classified in SIC Major Group 32.

2952 Asphalt Felts and Coatings.—Establishments primarily engaged in manufacturing asphalt and other saturated felts in roll or shingle form, either smooth or faced with grit, and in manufacturing roofing cements and coatings. Establishments primarily engaged in manufacturing paint are classified in industry 2851, and linoleum and tile cement in industry 2891.

299 MISCELLANEOUS PRODUCTS OF PETRQLEUM AND COAL

2992 Lubricating Oils and Greases.—Establishments primarily engaged in blending, compounding, and refining lubricating oils and greases from purchased mineral, animal, and vegetable materials. Petroleum refineries engaged in the production of lubricating oils and greases are classified in industry 2911.

2999 Products of Petroleum and Coal, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing fuel briquettes, boulets, packaged fuel, powdered fuel, and other products of petroleum and coal not elsewhere classified.

30 RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

This major group includes establishments manufacturing from natural, synthetic, or reclaimed rubber, gutta percha, balata, or gutta siak, rubber products such as tires, rubber footwear, mechanical rubber goods, heels and soles, flooring, and rubber sundries. This group also includes establishments primarily manufacturing tires, but establishments primarily recapping and retreading automobile tires are classified in industry 7534. This group also includes establishments engaged in molding primary plastics for the trade and manufacturing miscellaneous finished plastics products. The manufacture of elastic webbing is classified in SIC Major Group 22; products made of elastic webbing and garments made from rubberized fabrics in SIC Major Group 23; and synthetic rubber in industry 2822.

301 TIRES AND INNER TUBES

3011 Tires and Inner Tubes.—Establishments primarily engaged in manufacturing pneumatic casings, inner tubes, and solid and cushion tires for all types of vehicles, airplanes, farm equipment, and children's vehicles; tiring; and camelback, and tire repair and retreading materials. Establishments primarily engaged in retreading tires are classified in industry 7534.

302 RUBBER AND PLASTICS FOOTWEAR

3021 Rubber and Plastics Footwear.—Establishments primarily engaged in manufacturing all rubber and plastics footwear, waterproof fabric upper footwear, and other fabric upper footwear having rubber or plastic soles vulcanized to the uppers. Establishments primarily engaged in manufacturing rubber, composition, and fiber heels, soles, soling strips, and related shoemaking and repairing materials are classified in industry 3069; plastic soles and soling strips in industry 3079.

303 RECLAIMED RUBBER

3031 Reclaimed Rubber.—Establishments primarily engaged in reclaiming rubber from scrap rubber tires, tubes, and miscellaneous waste rubber articles by processes which result in devulcanized, depolymerized, or regenerated replasticized products containing added ingredients. These products are sold

for use as a raw material in the manufacture of rubber goods with or without admixture with crude rubber or synthetic rubber. Establishments primarily engaged in the assembly and wholesale sale of scrap rubber are classified in trade industries.

304 RUBBER AND PLASTICS HOSE AND BELTING

3041 Rubber and Plastics Hose and Belting.—Establishments primarily engaged in manufacturing rubber and plastics hose and belting, including garden hose. Establishments primarily engaged in manufacturing rubber tubing are classified in industry 3069; plastic tubing in industry 3079; and flexible metallic hose in industry 3599.

306 FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED

3069 Fabricated Rubber Products, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing industrial and mechanical rubber goods, rubberized fabrics, vulcanized rubber clothing, and miscellaneous rubber specialties and sundries. Establishments primarily engaged in rebuilding and retreading tires are classified in industry 7534; and gaskets and packing in industry 3293.

307 MISCELLANEOUS PLASTICS PRODUCTS

3079 Miscellaneous Plastics Products.—Establishments primarily engaged in molding primary plastics for the trade, and fabricating miscellaneous finished plastics products. Establishments primarily engaged in manufacturing fabricated plastics products or plastics film, sheet, rod, nontextile monofilaments and regenerated cellulose products, and vulcanized fiber are classified in this industry, whether from purchased resins or from resins produced in the same plant. Establishments primarily engaged in compounding purchased resins are also classified in this industry. Establishments primarily engaged in manufacturing artificial leather are classified in industry 2295.

31 LEATHER AND LEATHER PRODUCTS

This major group includes establishments engaged in tanning, currying, and finishing hides and skins, and establishments manufacturing finished leather, artificial leather products, and some similar products made of other materials. Leather converters are also included.

311 LEATHER TANNING AND FINISHING

3111 Leather Tanning and Finishing.—Establishments primarily engaged in tanning, currying, and finishing hides and skins into leather. This industry also includes leather converters who buy hides and skins and have them processed into leather on a contract basis by others.

313 BOOT AND SHOE CUT STOCK AND FINDINGS

3131 Boot and Shoe Cut Stock and Findings.—Establishments primarily engaged in manufacturing leather soles, inner soles, and other boot and shoe cut stock and findings. This industry also includes finished wood heels. Establishments primarily engaged in manufacturing heels, soling strips, and soles made of rubber, composition, plastics, and fiber are classified in SIC Major Group 30.

314 FOOTWEAR, EXCEPT RUBBER

3142 House Slippers.—Establishments primarily engaged in manufacturing house slippers of leather or other materials.

3143 Men's, Footwear, Except Athletic.—Establishments primarily engaged in the production of men's footwear designed primarily for dress, street, and work. Establishments primarily engaged in the production of such protective footwear as rubbers, rubber boots, storm shoes, galoshes, and other footwear with rubber soles vulcanized to the uppers are classified in industry 3021. Establishments primarily engaged in the production of athletic shoes and youths' and boys' shoes are classified in industry 3149.

3144 Women's Footwear, Except Athletic.—Establishments primarily engaged in the production of women's footwear designed primarily for dress, street, and work. Establishments primarily engaged in the production of athletic shoes and misses', children's, infants', and babies' footwear are classified in industry 3149 Establishments primarily engaged in the production of rubber or plastics footwear are classified in industry 3021.

3149 **Footwear, Except Rubber, Not Elsewhere Classified.**—Establishments primarily engaged in the production of shoes, not elsewhere classified, such as misses', youths', boys', children's, infants', and babies' footwear, and athletic footwear. Establishments primarily engaged in the production of rubber or plastics footwear are classified in industry 3021.

315 LEATHER GLOVES AND MITTENS

3151 **Leather Gloves and Mittens.**—Establishments primarily engaged in manufacturing dress, semidress, and work gloves exclusively of leather or leather with lining of other material. Establishments primarily engaged in manufacturing sporting and athletic gloves are classified in industry 3949; and dress, semidress, and work gloves and mittens of cloth or cloth and leather combined in industry 2381.

316 LUGGAGE

3161 **Luggage.**—Establishments primarily engaged in manufacturing luggage of leather or other materials.

317 HANDBAGS AND OTHER PERSONAL LEATHER GOODS

3171 **Women's Handbags and Purses.**—Establishments primarily engaged in manufacturing women's handbags and purses of leather or other materials, except precious metal (industry 3911).

3172 **Personal Leather Goods, Except Women's Handbags and Purses.**—Establishments primarily engaged in manufacturing small articles, such as billfolds, key cases, and coin purses of leather or other materials, except precious metal (industry 3911).

319 LEATHER GOODS, NOT ELSEWHERE CLASSIFIED

3199 **Leather Goods, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing leather goods, not elsewhere classified, such as saddlery, harness, whips, embossed leather goods, leather desk sets, razor strops, and leather belting. Establishments primarily engaged in manufacturing gaskets and packing are classified in industry 3293.

32 STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

This major group includes establishments engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut stone, abrasive and asbestos products, etc., from materials taken principally from the earth in the form of stone, clay, and sand. When separate reports are available for mines and quarries operated by manufacturing establishments classified in this major group, the mining and quarrying activities are classified in Division B. When separate reports are not available, the mining and quarrying activities other than those of industry 3295 are classified herein with the manufacturing operations.

If separate reports are not available for crushing, grinding, and other preparation activities of industry 3295, these establishments are classified in Division B.

321 FLAT GLASS

3211 **Flat Glass.**—Establishments primarily engaged in manufacturing flat glass. This industry also produces laminated glass, but establishments primarily engaged in manufacturing laminated glass from purchased flat glass are classified in industry 3231.

322 GLASS AND GLASSWARE, PRESSED OR BLOWN

This group includes establishments primarily engaged in manufacturing glass and glassware, pressed, blown, or shaped from glass produced in the same establishment. Establishments primarily engaged in manufacturing glass products from purchased glass are classified in industry 3231.

3221 **Glass Containers.**—Establishments primarily engaged in manufacturing glass containers for commercial packing and bottling and for home canning.

3229 **Pressed and Blown Glass and Glassware, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing glass and glassware, not elsewhere classified, pressed, blown, or shaped from glass produced in the same establishment. Establishments primarily engaged in manufacturing textile glass fibers are also included in this industry, but establishments primarily engaged in manufacturing glass wool insulation products are classified in industry

3296. Establishments primarily engaged in the production of pressed lenses for vehicular lighting, beacons, and lanterns are also included in this industry, but establishments primarily engaged in the production of optical lenses are classified in industry 3832. Establishments primarily engaged in manufacturing glass containers are classified in industry 3221, and complete electric light bulbs in industry 3641.

323 GLASS PRODUCTS, MADE OF PURCHASED GLASS

3231 Glass Products, Made of Purchased Glass.—Establishments primarily engaged in manufacturing glass products from purchased glass. Establishments primarily engaged in manufacturing optical lenses and ophthalmic lenses are classified in SIC Major Group 38.

324 CEMENT, HYDRAULIC

3241 Cement, Hydraulic.—Establishments primarily engaged in manufacturing hydraulic cement, including portland, natural, masonry, and pozzolan cements.

325 STRUCTURAL CLAY PRODUCTS

3251 Brick and Structural Clay Tile.—Establishments primarily engaged in manufacturing brick and structural clay tile. Establishments primarily engaged in manufacturing clay firebrick are classified in industry 3255, nonclay firebrick in industry 3297, sand lime brick in industry 3299, and glass brick in industry 3229.

3253 Ceramic Wall and Floor Tile.—Establishments primarily engaged in manufacturing ceramic wall and floor tile. Establishments primarily engaged in manufacturing structural clay tile are classified in industry 3251, and drain tile in industry 3259.

3255 Clay Refractories.—Establishments primarily engaged in manufacturing clay firebrick and other heat-resisting clay products. Establishments primarily engaged in manufacturing nonclay refractories, as well as all graphite refractories whether of carbon bond or ceramic bond, are classified in industry 3297.

3259 Structural Clay Products, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing clay sewer pipe and structural clay products not elsewhere classified.

326 POTTERY AND RELATED PRODUCTS

3261 Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories.—Establishments primarily engaged in manufacturing china plumbing fixtures and china and earthenware fittings and bathroom accessories.

3262 Vitreous China Table and Kitchen Articles.—Establishments primarily engaged in manufacturing vitreous china table and kitchen articles for use in households and in hotels, restaurants, and other commercial institutions for preparing, serving, or storing food or drink. Establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware (whiteware) table and kitchen articles are classified in industry 3263.

3263 Fine Earthenware (Whiteware) Table and Kitchen Articles.—Establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware table and kitchen articles for preparing, serving, or storing food or drink. Establishments primarily engaged in manufacturing vitreous china table and kitchen articles are classified in industry 3262.

3264 Porcelain Electrical Supplies.—Establishments primarily engaged in manufacturing porcelain electrical insulators, molded porcelain parts for electrical devices, spark plug and steatitic porcelain, and other electrical supplies from clay and other ceramic materials.

3269 Pottery Products, Not Elsewhere Classified.—Establishments primarily engaged in firing and decorating white china and earthenware for the trade and manufacturing art and ornamental pottery, industrial and laboratory pottery, stoneware and coarse earthenware table and kitchen articles, unglazed red earthenware florists' articles, and other pottery products, not elsewhere classified.

327 CONCRETE, GYPSUM, AND PLASTER PRODUCTS

3271 Concrete Block and Brick.—Establishments primarily engaged in manufacturing concrete building block and brick from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in the construction industries, and establishments primarily engaged in mixing and delivering ready-mixed concrete in industry 3273.

3272 Concrete Products, Except Block and Brick.—Establishments primarily engaged in manufacturing concrete products, except block and brick, from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in the construction industries, and establishments primarily engaged in mixing and delivering ready-mixed concrete in industry 3273.

3273 Ready-Mixed Concrete.—Establishments primarily engaged in manufacturing portland cement concrete manufactured and delivered to a purchaser in a plastic and unhardened state. This industry includes production and sale of central-mixed concrete, shrink-mixed concrete, and transit-mixed concrete.

3274 Lime.—Establishments primarily engaged in manufacturing quicklime, hydrated lime, and "dead-burned" dolomite from limestone, dolomite shells, or other substances.

3275 Gypsum Products.—Establishments primarily engaged in manufacturing plaster, plasterboard, and other products composed wholly or chiefly of gypsum.

328 CUT STONE AND STONE PRODUCTS

3281 Cut Stone and Stone Products.—Establishments primarily engaged in cutting, shaping, and finishing marble, granite, slate, and other stone for building and miscellaneous uses. Establishments primarily engaged in buying or selling partly finished monuments and tombstones, but performing no work on the stones other than lettering, finishing, or shaping to custom order, are classified in trade industries. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in Division B.

329 ABRASIVE, ASBESTOS, AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS

3291 Abrasive Products.—Establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials and other abrasive products. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in mining industries.

3292 Asbestos Products.—Establishments primarily engaged in manufacturing asbestos textiles, asbestos building materials, except asbestos paper (industry 2661), insulating materials for covering boilers and pipes, and other commodities composed wholly or chiefly of asbestos. Establishments primarily engaged in manufacturing gaskets and steam and other packing are classified in industry 3293.

3293 Gaskets, Packing, and Sealing Devices.—Establishments primarily engaged in manufacturing gaskets, gasketing materials, compression packings, molded packings, oil seals, and mechanical seals. Included are gaskets, packing, and sealing devices made of leather, rubber, metal, asbestos, and plastics.

3295 Minerals and Earths, Ground or Otherwise Treated.—Establishments operating without a mine or quarry and primarily engaged in the crushing, grinding, pulverizing, or otherwise preparing clay, ceramic, and refractory minerals; barite; and miscellaneous nonmetallic minerals, except fuels. These minerals are the crude products mined by establishments of SIC groups 145 and 149 and industry 1472. Also included are establishments primarily crushing slag and preparing roofing granules. The beneficiation or preparation of other minerals and metallic ores, and the cleaning and grading of coal, are classified in the mining industries, whether or not the operation is associated with a mine.

3296 Mineral Wool.—Establishments primarily engaged in manufacturing mineral wool and mineral wool insulation products made of such siliceous materials as rock, slag, and glass, or combinations thereof. Establishments primarily engaged in manufacturing asbestos insulation products are classified in industry 3292, and textile glass fibers in industry 3229.

3297 Nonclay Refractories.—Establishments primarily engaged in manufacturing refractories and crucibles made of materials other than clay. This industry also includes establishments primarily engaged in manufacturing all graphite refractories, whether of carbon bond or ceramic bond. Establishments primarily engaged in manufacturing clay refractories are classified in industry 3255.

3299 Nonmetallic Mineral Products, Not Elsewhere Classified.—Establishments primarily engaged in the factory production of statuary and art goods made of plaster of paris and papier mache, and in manufacturing sand lime products and other nonmetallic mineral products not elsewhere classified.

33 PRIMARY METAL INDUSTRIES

This major group includes establishments engaged in the smelting and refining of ferrous and nonferrous metals from ore, pig, or scrap; in the rolling, drawing, and alloying of ferrous and nonferrous metals; in the manufacture of castings and other basic products of ferrous and nonferrous metals; and in the manufacture of nails, spikes, and insulated wire and cable. This major group also includes the production of coke. Establishments primarily engaged in manufacturing metal forgings or stampings are classified in SIC group 346.

331 BLAST FURNACES, STEELWORKS, AND ROLLING AND FINISHING MILLS

3312 Blast Furnaces (Including Coke Ovens), Steelworks, and Rolling Mills.—Establishments primarily engaged in manufacturing hot metal, pig iron, silvery pig iron, and ferroalloys from iron ore and iron and steel scrap; converting pig iron, scrap iron, and scrap steel into steel; and in hot rolling iron and steel into basic shapes such as plates, sheets, strips, rods, bars, and tubing. Merchant blast furnaces and byproduct or beehive coke ovens are also included in this industry. Establishments primarily engaged in manufacturing ferro and nonferrous additive alloys by electrometallurgical processes are classified in industry 3313.

3313 Electrometallurgical Products.—Establishments primarily engaged in manufacturing ferro and nonferrous additive alloys by electrometallurgical or metallothermic processes, including high percentage ferroalloys and high percentage nonferrous additive alloys.

3315 Steel Wiredrawing and Steel Nails and Spikes.—Establishments primarily engaged in drawing wire from purchased iron or steel rods, bars, or wire, and which may be engaged in the further manufacture of products made from wire; establishments primarily engaged in manufacturing steel nails and spikes from purchased materials are also included in this industry. Rolling mills engaged in the production of ferrous wire from wire rods or hot rolled bars produced in the same establishment are classified in industry 3312. Establishments primarily engaged in drawing nonferrous wire are classified in SIC group 335.

3316 Cold Rolled Steel Sheet, Strip, and Bars.—Establishments primarily engaged in (1) cold rolling steel sheets and strip from purchased hot rolled sheets; (2) cold drawing steel bars and steel shapes from purchased hot rolled steel bars; and (3) producing other cold finished steel. Establishments primarily engaged in the production of steel, including hot rolled steel sheets, and further cold rolling such sheets are classified in industry 3312.

3317 Steel Pipe and Tubes.—Establishments primarily engaged in the production of welded or seamless steel pipe and tubes and heavy riveted steel pipe from purchased materials. Establishments primarily engaged in the production of steel, including steel skelp or steel blanks, tube rounds, or pierced billets, are classified in industry 3312.

332 IRON AND STEEL FOUNDRIES

This group includes establishments primarily engaged in manufacturing iron and steel castings. These establishments generally operate on a job or order basis, manufacturing castings for sale to others or for interplant transfer. Establishments which produce iron and steel castings and which are also engaged in fabricating operations, such as machining, assembling, etc., in manufacturing a specified product are classified in the industry of the specified product. Iron and steel castings are made to a considerable extent by establishments classified in other industries, that operate foundry departments for the production of castings for incorporation, in the same establishment, into such products as stoves, furnaces, plumbing fixtures, motor vehicles, etc. Establishments primarily engaged in the manufacture and rolling of steel and also making steel castings are classified in industry 3312. Establishments primarily engaged in manufacturing nonferrous castings are classified in SIC group 336.

3321 Gray Iron Foundries.—Establishments primarily engaged in manufacturing gray iron castings, including cast iron pressure and soil pipes and fittings.

3322 Malleable Iron Foundries.—Establishments primarily engaged in manufacturing malleable iron castings.

3324 Steel Investment Foundries.—Establishments primarily engaged in manufacturing steel investment castings.

3325 Steel Foundries, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing steel castings not elsewhere classified.

333 PRIMARY SMELTING AND REFINING OF NONFERROUS METALS

3331 Primary Smelting and Refining of Copper.—Establishments primarily engaged in smelting copper from the ore, and in refining copper by electrolytic or other processes. Establishments primarily engaged in rolling, drawing, or extruding copper are classified in industry 3351.

3332 Primary Smelting and Refining of Lead.—Establishments primarily engaged in smelting lead from the ore and in refining lead by any process. Establishments primarily engaged in rolling, drawing, or extruding lead are classified in industry 3356.

3333 Primary Smelting and Refining of Zinc.—Establishments primarily engaged in smelting zinc from the ore and in refining zinc by any process. Establishments primarily engaged in rolling, drawing, or extruding zinc are classified in industry 3356.

3334 Primary Production of Aluminum.—Establishments primarily engaged in producing aluminum from aluminua and in refining aluminum by any process. Establishments primarily engaged in rolling, drawing, or extruding aluminum are classified in industries 3353, 3354, and 3355.

3339 Primary Smelting and Refining of Nonferrous Metals, Not Elsewhere Classified.—Establishments primarily engaged in smelting and refining nonferrous metals not elsewhere classified. Establishments primarily engaged in rolling, drawing, and extruding these nonferrous primary metals are classified in industry 3356, and the production of bullion at the site of the mine is classified in the mining industries.

334 SECONDARY SMELTING AND REFINING OF NONFERROUS METALS

3341 Secondary Smelting and Refining of Nonferrous Metals.—Establishments primarily engaged in recovering nonferrous metals and alloys from new and used scrap and dross. This industry includes establishments engaged in both the recovery and alloying of precious metals. Plants engaged in the recovery of tin through secondary smelting and refining, as well as by chemical processes, are included in this industry. Establishments primarily engaged in assembling, sorting, and breaking up scrap metal, without smelting and refining, are classified in trade industries.

335 ROLLING, DRAWING, AND EXTRUDING OF NONFERROUS METALS

3351 Rolling, Drawing, and Extruding of Copper.—Establishments primarily engaged in rolling, drawing, and extruding copper, brass, bronze, and other copper base alloy basic shapes, such as plate, sheet, strip, bar, and tubing. Establishments primarily engaged in recovering copper and its alloys from scrap or dross are classified in industry 3341.

3353 Aluminum Sheet, Plate, and Foil.—Establishments primarily engaged in flat rolling aluminum and aluminum base alloy basic shapes such as sheet, plate, and foil, including establishments producing welded tube. Also included are establishments primarily producing similar products by continuous casting.

3354 Aluminum Extruded Products.—Establishments primarily engaged in extruding aluminum and aluminum base alloy basic shapes such as rod and bar, pipe and tube, and tube blooms, including establishments producing tube by drawing.

3355 Aluminum Rolling and Drawing, Not Elsewhere Classified.—Establishments primarily engaged in rolling, drawing, and other operations resulting in the production of aluminum ingot, including extrusion ingot, and aluminum and aluminum base alloy basic shapes, not elsewhere classified, such as rolled and continuous cast rod and bar. Establishments primarily engaged in producing aluminum powder, flake, and paste are classified in industry 3399, and those producing aluminum wire and cable from purchased wire bars, rods, or wire are classified in industry 3357.

3356 Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum.—Establishments primarily engaged in rolling, drawing, and extruding nonferrous metals other than copper (industry 3351) and aluminum (industries 3353, 3354, and 3355). The products of this industry are

produced in the form of basic shapes such as plate, sheet, strip, bar, and tubing. Establishments primarily engaged in recovering nonferrous metals and alloys from scrap or dross are classified in industry 3341; in manufacturing gold, silver, tin, and other foils except aluminum in industry 3497; and aluminum foil in industry 3353.

3357 **Drawing and Insulating of Nonferrous Wire.**—Establishments primarily engaged in drawing and insulating, and insulating wire and cable of nonferrous metals from purchased wire bars, rods, or wire.

336 NONFERROUS FOUNDRIES (CASTINGS)

This group includes establishments primarily engaged in manufacturing castings and die castings of aluminum, brass, bronze and other nonferrous metals and alloys. These establishments generally operate on a job or order basis, manufacturing castings for sale to others or for interplant transfer. Establishments which produce nonferrous castings and which are also engaged in fabricating operations, such as machining, assembling, etc., in manufacturing a specified product are classified in the industry of the specified product. Nonferrous castings are made to a considerable extent by establishments classified in other industries that operate foundry departments for the production of castings for incorporation, in the same establishment, into such products as machinery, motor vehicles, etc. Establishments primarily engaged in manufacturing iron and steel castings are classified in SIC group 332.

3361 **Aluminum Foundries (Castings).**—Establishments primarily engaged in manufacturing castings and die castings of aluminum and aluminum-base alloys.

3362 **Brass, Bronze, Copper, Copper Base Alloy Foundries (Castings).**—Establishments primarily engaged in manufacturing castings and die castings of copper and copper-base alloys.

3369 **Nonferrous Foundries (Castings), Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing castings and die castings of nonferrous materials except aluminum, copper, and copper base alloys.

339 MISCELLANEOUS PRIMARY METAL PRODUCTS

3398 **Metal Heat Treating.**—Establishments primarily engaged in heat treating of metal for the trade.

3399 **Primary Metal Products, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing primary metal products, not elsewhere classified, such as nonferrous nails, brads, and spikes; and metal powder, flakes, and paste.

34 FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

This major group includes establishments engaged in fabricating ferrous and nonferrous metal products such as metal cans, tinware, handtools, cutlery, general hardware, nonelectric heating apparatus, fabricated structural metal products, metal forgings, metal stampings, ordnance (except vehicles and guided missiles), and a variety of metal and wire products not elsewhere classified. Certain important segments of the metal fabricating industries are classified in other major groups such as machinery in SIC Major Groups 35 and 36; transportation equipment, including tanks, in SIC Major Group 37; professional scientific and controlling instruments, watches, and clocks in SIC Major Group 38; and jewelry and silverware in SIC Major Group 39. Establishments primarily engaged in producing ferrous and nonferrous metals and their alloys are classified in SIC Major Group 33.

341 METAL CANS AND SHIPPING CONTAINERS

3411 **Metal Cans.**—Establishments primarily engaged in manufacturing metal cans from purchased materials. Establishments primarily engaged in manufacturing foil containers are classified in industry 3497.

3412 **Metal Shipping Barrels, Drums, Kegs, and Pails.**—Establishments primarily engaged in manufacturing ferrous and nonferrous metal shipping barrels, drums, kegs, and pails.

342 CUTLERY, HANDTOOLS, AND GENERAL HARDWARE

3421 **Cutlery.**—Establishments primarily engaged in manufacturing cutlery. Establishments primarily engaged in manufacturing table cutlery made entirely of metal are classified in industry 3914; those manufacturing electric razors in industry 3634; and those manufacturing hair clippers for human use in industry 3999, and for animal use in industry 3523.

3423 **Hand and Edge Tools, Except Machine Tools and Handsaws.**—Establishments primarily engaged in manufacturing files and other hand and edge tools for metalworking, woodworking, and general maintenance. Establishments primarily engaged in manufacturing saws are classified in industry 3425; and metal-cutting dies, power-driven handtools, and attachments and accessories for machine tools in SIC Major Group 35.

3425 **Handsaws and Saw Blades.**—Establishments primarily engaged in manufacturing handsaws and saw blades for hand and power-driven saws. Establishments primarily engaged in manufacturing power-driven sawing machines are classified in SIC Major Group 35.

3429 **Hardware, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing miscellaneous metal products usually termed "hardware," not elsewhere classified. Establishments primarily engaged in manufacturing bolts and nuts are classified in industry 3452, nails and spikes in SIC Major Group 33, cutlery in industry 3421, handtools in industry 3423, and pole line and transmission hardware in SIC Major Group 36.

343 HEATING EQUIPMENT, EXCEPT ELECTRIC AND WARM AIR; AND PLUMBING FIXTURES

3431 **Enameled Iron and Metal Sanitary Ware.**—Establishments primarily engaged in manufacturing enameled iron, cast iron, or pressed metal sanitary ware. Establishments primarily engaged in manufacturing vitreous and semivitreous pottery sanitary ware are classified in industry 3261; and those manufacturing porcelain enameled kitchen, household, and hospital ware in industry 3469.

3432 **Plumbing Fixture Fittings and Trim (Brass Goods).**—Establishments primarily engaged in manufacturing plumbing fixture fittings and trim (brass goods). Establishments primarily engaged in the manufacture of steam or water line valves are classified in industry 3494.

3433 **Heating Equipment, Except Electric and Warm Air Furnaces.**—Establishments primarily engaged in manufacturing heating equipment, except electric and warm air furnaces, including gas, oil, and stoker coal-fired equipment for the automatic utilization of gaseous, liquid, and solid fuels. Establishments primarily engaged in manufacturing warm air furnaces are classified in industry 3585; cooking stoves and ranges in industry 3631; boiler shops primarily engaged in the production of industrial, power and marine boilers in industry 3443; and industrial process furnaces and ovens in industry 3567.

344 FABRICATED STRUCTURAL METAL PRODUCTS

3441 **Fabricated Structural Metal.**—Establishments primarily engaged in manufacturing fabricated iron and steel or other metal for structural purposes, such as bridges, buildings, and sections for ships, boats, and barges. Establishments primarily engaged in manufacturing metal doors, sash, frames, molding, and trim are classified in industry 3442; and establishments doing fabrication work at the site of construction are classified in Division C.

3442 **Metal Doors, Sash, Frames, Molding, and Trim.**—Establishments primarily engaged in manufacturing ferrous and nonferrous metal and metal covered doors and sash, window and door frames and screens, molding, and trim.

3443 **Fabricated Platework (Boiler Shops).**—Establishments primarily engaged in manufacturing power and marine boilers, pressure and nonpressure tanks, processing and storage vessels, heat exchangers, weldments, and similar products by the process of cutting, forming, and joining metal plates, shapes, bars, sheet, pipe mill products, and tubing to custom or standard design for factory or field assembly. Establishments primarily engaged in manufacturing warm air heating furnaces are classified in industry 3585, other nonelectric heating apparatus except power boilers in industry 3433, and household cooking apparatus in industry 3631.

3444 **Sheet Metalwork.**—Establishments primarily engaged in manufacturing sheet metalwork for buildings (not including fabrication work done by construction contractors at the place of construction), and manufacturing sheet metal stovepipes, light tanks, etc.

3446 **Architectural and Ornamental Metalwork.**—Establishments primarily engaged in manufacturing architectural and ornamental metalwork of ferrous and nonferrous metals, such as stairs and staircases, open

steel flooring (grating), fire escapes, grilles, railings, and fences and gates, except those made from wire. Establishments primarily engaged in manufacturing prefabricated and portable metal buildings and parts are classified in industry 3448, and miscellaneous metalwork in industry 3449.

3448 **Prefabricated Metal Buildings and Components.**—Establishments primarily engaged in manufacturing prefabricated and portable metal buildings and parts, and prefabricated exterior metal panels.

3449 **Miscellaneous Metalwork.**—Establishments primarily engaged in manufacturing miscellaneous ferrous and nonferrous metalwork, such as metal plaster bases, fabricated bar joists, and concrete reinforcing bars.

345 SCREW MACHINE PRODUCTS, AND BOLTS, NUTS, SCREWS, RIVETS, AND WASHERS

3451 **Screw Machine Products.**—Establishments primarily engaged in manufacturing automatic or hand screw machine products from rod, bar, or tube stock of metal, fiber, plastics, or other material. The products of this industry consist of a wide variety of unassembled parts and are usually manufactured on a job or order basis. Establishments primarily engaged in manufacturing standard bolts, nuts, rivets, screws, and other industrial fasteners on headers, threaders, and nut forming machines are classified in industry 3452.

3452 **Bolts, Nuts, Screws, Rivets, and Washers.**—Establishments primarily engaged in manufacturing bolts, nuts, screws, rivets, washers, formed and threaded wire goods, and special industrial fasteners. Rolling mills engaged in manufacturing similar products are classified in SIC Major Group 33, and establishments primarily engaged in manufacturing screw machine products in industry 3451.

346 METAL FORGINGS AND STAMPINGS

This group includes establishments primarily engaged in manufacturing metal forgings or metal stampings. These establishments generally operate on a job or order basis, manufacturing metal stampings or forgings for sale to others or for interplant transfer. Establishments which produce metal stampings or forgings for incorporation in end products produced in the same establishment are classified on the basis of the end product.

3462 **Iron and Steel Forgings.**—Establishments primarily engaged in manufacturing iron and steel forgings, with or without the use of dies.

3463 **Nonferrous Forgings.**—Establishments primarily engaged in manufacturing nonferrous forgings, with or without the use of dies.

3465 **Automotive Stampings.**—Establishments primarily engaged in manufacturing automotive stampings such as body parts, hubs, and trim.

3466 **Crowns and Closures.**—Establishments primarily engaged in manufacturing metal crowns and closures.

3469 **Metal Stampings, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing metal stampings and spun products, not elsewhere classified, including porcelain enameled products such as household appliance housings and parts; utensils and consumer stamped and spun products such as cooking and kitchen utensils; and other nonautomotive job stampings.

347 COATING, ENGRAVING, AND ALLIED SERVICES

3471 **Electroplating, Plating, Polishing, Anodizing, and Coloring.**—Establishments primarily engaged in all types of electroplating, plating, anodizing, coloring, and finishing of metals and formed products for the trade. Most of the work done in this industry is done on materials owned by others.

3479 **Coating, Engraving, and Allied Services, Not Elsewhere Classified.**—Establishments primarily engaged in performing the following types of services on metals: (1) Enameling, lacquering, and varnishing metal products for the trade; (2) hot-dip galvanizing of mill sheets, plates and bars, castings, and formed products fabricated of iron and steel; hot-dip coating such items with aluminum, lead, or zinc; retinning cans and utensils; (3) engraving, chasing and etching jewelry, silverware, notarial and other seals, and other metal products for the trade and for job contracting for purposes other than printing; and (4) other metal services, not elsewhere classified. Establishments primarily engaged in electroplating, plating, polishing, anodizing, coloring, and finishing of metals and formed products for the trade are classified in industry 3471; and those producing porcelain enameled products in industry 3469.

348 ORDNANCE AND ACCESSORIES, EXCEPT VEHICLES AND GUIDED MISSILES

3482 Small Arms Ammunition.—Establishments primarily engaged in manufacturing ammunition for small arms having a bore of 30 mm (or 1.18 inch) and below. Establishments primarily engaged in manufacturing ammunition except for small arms are classified in industry 3483, blasting and detonating caps and safety fuses in industry 2892, and fireworks in industry 2899.

3483 Ammunition, Except for Small Arms, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing ammunition, not elsewhere classified, or in loading and assembling ammunition over 30 mm (or over 1.18 inch) for naval, aircraft, antiaircraft, tank, coast, and field artillery; including component parts. This industry also includes establishments primarily engaged in manufacturing bombs, mines, torpedoes, grenades, depth charges, chemical warfare projectiles, and their component parts. Establishments primarily engaged in manufacturing small arms ammunition are classified in industry 3482, explosives in industry 2892, and military pyrotechnics in industry 2899.

3484 Small Arms.—Establishments primarily engaged in manufacturing small firearms having a bore 30 mm (or 1.18 inch) and below, and parts for small firearms. Also included in this industry are establishments primarily engaged in manufacturing certain weapons over 30 mm which are carried and employed by the individual, such as grenade launchers and heavy field machine guns. Establishments primarily engaged in manufacturing artillery and mortars having a bore over 30 mm (or over 1.18 inch) and component parts are classified in industry 3489.

3489 Ordnance and Accessories, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing ordnance and accessories, not elsewhere classified, such as naval, aircraft, antiaircraft, tank, coast, and field artillery having a bore over 30 mm (or over 1.18 inch) and components. Establishments primarily engaged in manufacturing small arms and parts 30 mm (or 1.18 inch) and below are classified in industry 3484; tanks in industry 3795; and guided missiles in SIC group 376.

349 MISCELLANEOUS FABRICATED METAL PRODUCTS

3493 Steel Springs, Except Wire.—Establishments primarily engaged in manufacturing leaf springs, hot wound springs, and coiled flat springs. Establishments primarily engaged in manufacturing wire springs are classified in industry 3495.

3494 Valves and Pipe Fittings, Except Plumbers' Brass Goods.—Establishments primarily engaged in manufacturing pipe fittings and valves for controlling the flow of liquids or gases in pipes and mains, and for machinery. Establishments primarily engaged in manufacturing faucets, spigots, and similar plumbers' brass goods and fittings are classified in industry 3432, flexible metal hose and tubing in industry 3599, and fittings and couplings for garden hose in industry 3429.

3495 Wire Springs.—Establishments primarily engaged in manufacturing wire springs. Establishments primarily engaged in assembling wire bedsprings or seats are classified in SIC Major Group 25.

3496 Miscellaneous Fabricated Wire Products.—Establishments primarily engaged in manufacturing miscellaneous fabricated wire products from purchased wire, such as noninsulated wire rope and cable; fencing; screening, netting, paper machine wire cloth; and hangers, paper clips, kitchenware, and wire carts. Rolling mills engaged in manufacturing wire products are classified in SIC Major Group 33; establishments manufacturing nonferrous wire nails and spikes in industry 3399; those drawing and insulating nonferrous wire in industry 3357; and those manufacturing wire springs in industry 3495.

3497 Metal Foil and Leaf.—Establishments primarily engaged in manufacturing gold, silver, tin, and other metal foil (including converted metal foil) and leaf. Also included are establishments primarily engaged in converting metal foil (including aluminum) into wrappers, cookware, dinnerware, and containers, except bags and liners. Establishments primarily engaged in manufacturing plain aluminum foil are classified in industry 3353.

3498 Fabricated Pipe and Fabricated Pipe Fittings.—Establishments primarily engaged in fabricating pipe and pipe fittings from purchased pipe, by cutting,

threading, bending, etc. Establishments primarily engaged in manufacturing cast iron pipe and fittings, including cast and forged pipe fittings which have been machined and threaded, are classified in industry 3321; and welded and heavy riveted pipe and seamless steel pipe in industry 3317. Establishments primarily engaged in manufacturing products such as bannisters, railings, and guards from pipe are classified in industry 3446.

3499 **Fabricated Metal Products, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing fabricated metal products, not elsewhere classified, such as fire or burglary resistive steel safes and vaults and similar fire or burglary resistive products; and collapsible tubes of thin flexible metal. Also included are establishments primarily engaged in manufacturing metal boxes, metal ladders, and metal household articles such as ice cream freezers and ironing boards. Establishments primarily engaged in manufacturing concrete grave vaults are classified in industry 3722, and metal grave vaults in industry 3995. Establishments primarily engaged in manufacturing advertising novelties are classified in industry 3993.

35 MACHINERY, EXCEPT ELECTRICAL

This major group includes establishments engaged in manufacturing machinery and equipment other than electrical equipment (SIC Major Group 36) and transportation equipment (SIC Major Group 37). Machines powered by built-in or detachable motors are ordinarily included in this major group, with the exception of electrical household appliances (SIC Major Group 36). Portable tools, both electric and pneumatic powered, are included in this major group, but handtools are classified in SIC Major Group 34.

351 ENGINES AND TURBINES

3511 **Steam, Gas, and Hydraulic Turbine Generator Set Units.**—Establishments primarily engaged in manufacturing steam turbines; hydraulic turbines; gas turbines, except aircraft; complete steam, gas, and hydraulic turbine generator set units; and steam engines. Establishments primarily engaged in building or rebuilding locomotives are classified in industry 3743; and those manufacturing nonautomotive type generators which are not part of a turbine generator set in industry 3621.

3519 **Internal Combustion Engines, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing diesel, semi-diesel, or other internal combustion engines, not elsewhere classified, for stationary, marine, traction, and other uses. Establishments primarily engaged in manufacturing aircraft engines are classified in industry 3724; automotive engines (except diesel) in industry 3714; engine generator sets in industry 3621; and guided missile and space vehicle propulsion units in industry 3764.

352 FARM AND GARDEN MACHINERY AND EQUIPMENT

3523 **Farm Machinery and Equipment.**—Establishments primarily engaged in manufacturing farm machinery and equipment, including wheel tractors, for use in the preparation and maintenance of the soil; planting and harvesting of the crop; preparing crops for market, on the farm; or for use in performing other farm operations and processes. Establishments primarily engaged in manufacturing industrial trucks, tractors, and trailers used for handling materials in industrial plants, depots, and docks are classified in industry 3537; contractors' off-highway tractors are classified in industry 3531; farm handtools in SIC group 342; and garden tractors, lawn mowers and other lawn and garden equipment in industry 3524.

3524 **Garden Tractors and Lawn and Garden Equipment.**—Establishments primarily engaged in manufacturing lawn mowers, garden tractors, and other lawn and garden equipment used for home lawn and garden care. Also included are establishments primarily manufacturing snow blowers and throwers for residential use. Establishments primarily engaged in manufacturing farm machinery and equipment are classified in industry 3523; hand lawn and garden shears and pruners in industry 3421; and other garden handtools in industry 3423.

353 CONSTRUCTION, MINING, AND MATERIALS HANDLING MACHINERY AND EQUIPMENT

3531 **Construction Machinery and Equipment.**—Establishments primarily engaged in manufacturing heavy machinery and equipment used by the construction industries, such as bulldozers; concrete mixers; cranes, except industrial plant type; dredging machinery; pavers; and power shovels. Establish-

ments primarily engaged in manufacturing mining equipment are classified in industry 3532, and well-drilling machinery in industry 3533.

3532 Mining Machinery and Equipment, Except Oilfield Machinery and Equipment.—Establishments primarily engaged in manufacturing heavy machinery and equipment used by the mining industries, such as coal breakers, mine cars, mineral cleaning machinery, concentration machinery, core drills, coal cutters, portable rock drills, and rock crushing machinery. Establishments primarily engaged in manufacturing construction machinery are classified in industry 3531; well-drilling machinery in industry 3533; and coal and ore conveyors in industry 3535.

3533 Oilfield Machinery and Equipment.—Establishments primarily engaged in manufacturing machinery and equipment for use in oil and gas fields or for drilling water wells.

3534 Elevators and Moving Stairways.—Establishments primarily engaged in manufacturing passenger or freight elevators, automobile lifts, dumbwaiters, and moving stairways. Establishments primarily engaged in manufacturing commercial conveyor systems and equipment are classified in industry 3535, and farm elevators in industry 3523.

3535 Conveyors and Conveying Equipment.—Establishments primarily engaged in manufacturing conveyors and conveying equipment for installation in factories, warehouses, mines, and other industrial and commercial establishments. Establishments primarily engaged in manufacturing passenger or freight elevators, dumbwaiters, and moving stairways are classified in industry 3534; and overhead traveling cranes and monorail systems in industry 3536.

3536 Hoists, Industrial Cranes, and Monorail Systems.—Establishments primarily engaged in manufacturing overhead traveling cranes, hoists, and monorail systems for installation in factories, warehouses, and other industrial and commercial establishments.

3537 Industrial Trucks, Tractors, Trailers, and Stackers.—Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, stackers (truck type), and related equipment, used for handling materials on floors and paved surfaces in and around industrial and commercial plants, depots, docks, and terminals. Establishments primarily engaged in manufacturing motor vehicles and motor vehicle type trailers are classified in SIC group 371; farm-type wheel tractors in industry 3523; wheel tractor shovel loaders and tracklaying tractors in industry 3531; and wood pallets and skids in industry 2448.

354 METALWORKING MACHINERY AND EQUIPMENT

3541 Machine Tools, Metal-Cutting Types.—Establishments primarily engaged in manufacturing machines, not supported in the hands of an operator when in use, that shape metal by cutting or use of electrical techniques; the rebuilding of such machine tools; and the manufacture of replacement parts for them. Metalworking, or primarily metalworking, machine tools designed primarily for home workshops are also included. Establishments primarily engaged in the manufacture of electric welding equipment are classified in industry 3623; portable power-driven handtools in industry 3546; and gas welding and cutting equipment and automotive maintenance equipment in industry 3549.

3542 Machine Tools, Metal-Forming Types.—Establishments primarily engaged in manufacturing machines, not supported in the hands of an operator while in use, for pressing, hammering, extruding, shearing, die-casting, or otherwise forming metal into shape. This industry also includes rebuilding such machine tools and manufacturing repair parts for them. Establishments primarily engaged in the manufacture of electric welding equipment are classified in industry 3623; portable power-driven handtools in industry 3546; rolling mill machinery and equipment in industry 3547; and gas welding and cutting equipment and automotive maintenance equipment in industry 3549.

3544 Special Dies and Tools, Die Sets, Jigs and Fixtures, and Industrial Molds.—Establishments commonly known as contract tool and die shops and primarily engaged in manufacturing, on a job or order basis, special tools and fixtures for use with machine tools, hammers, die-casting machines, and presses. The products of establishments classified in this industry include a wide variety of special toolings, such as dies; punches; die sets and components and subpresses; jigs and fixtures; and special checking devices. Establishments primarily engaged in manufacturing molds for die casting and foundry casting; metal molds for plasterworking, rubber working,

plastic working, glassworking and similar machinery are also included. Establishments primarily engaged in manufacturing molds for heavy steel ingots are classified in industry 3321.

3545 **Machine Tool Accessories and Measuring Devices.**—Establishments primarily engaged in manufacturing cutting tools, machinist's precision measuring tools, and attachments and accessories for machine tools and for other metalworking machinery not elsewhere classified. Establishments primarily engaged in manufacturing handtools, except power-driven types, are classified in SIC group 342.

3546 **Power-Driven Handtools.**—Establishments primarily engaged in manufacturing power-driven handtools, such as drills and drilling tools, pneumatic and snagging grinders, and electric hammers. Establishments primarily engaged in manufacturing automotive maintenance equipment are classified in industry 3549; those primarily manufacturing machine tools for metal cutting and metal forming (including home workshop tools) which are not supported in the hands of an operator, are classified in industries 3541 and 3542; and those primarily manufacturing power-driven heavy construction or mining handtools in SIC group 353.

3547 **Rolling Mill Machinery and Equipment.**—Establishments primarily engaged in manufacturing rolling mill machinery and processing equipment for metal production such as cold forming mills, structural mills, and finishing equipment.

3549 **Metalworking Machinery, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing metalworking machinery, not elsewhere classified, such as gas cutting and welding equipment, wire fabricating machinery and equipment, except wire-drawing dies, and automotive maintenance machinery and equipment. Establishments primarily engaged in manufacturing metal-cutting machine tools are classified in industry 3541; metal-forming machine tools in industry 3542; power-driven handtools in industry 3546; and rolling mill machinery in industry 3547.

355 SPECIAL INDUSTRY MACHINERY, EXCEPT METALWORKING MACHINERY

3551 **Food Products Machinery.**—Establishments primarily engaged in manufacturing machinery for use by the food products and beverage manufacturing industries in the preparation, canning, or packaging of food products; and parts and attachments for such machinery. Establishments primarily engaged in manufacturing industrial refrigeration machinery are classified in SIC group 358.

3552 **Textile Machinery.**—Establishments primarily engaged in manufacturing machinery for the textile industries, including parts, attachments, and accessories. Establishments primarily engaged in manufacturing domestic or industrial sewing machines are classified in industry 3636.

3553 **Woodworking Machinery.**—Establishments primarily engaged in manufacturing machinery for sawmills, planing mills, cabinet and furniture makers, patternmakers, and veneer workers. Establishments primarily engaged in manufacturing handtools such as planes, axes, drawknives, and handsaws are classified in SIC group 342; and portable power-driven handtools in industry 3546.

3554 **Paper Industries Machinery.**—Establishments primarily engaged in manufacturing machinery for the pulp, paper, and paper product industries. Establishments primarily engaged in manufacturing printing trades machinery are classified in industry 3555.

3555 **Printing Trades Machinery and Equipment.**—Establishments primarily engaged in manufacturing machinery and equipment used by the printing and bookbinding trades. Establishments primarily engaged in manufacturing textile printing machinery are classified in industry 3552.

3559 **Special Industry Machinery, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing special industry machinery, not elsewhere classified, such as smelting and refining equipment, cementmaking, clayworking, cotton ginning, glassmaking, hatmaking, incandescent lampmaking, leatherworking, paintmaking, rubberworking, cigar and cigarette making, tobacco working, shoemaking, and stoneworking machinery.

356 GENERAL INDUSTRIAL MACHINERY AND EQUIPMENT

3561 **Pumps and Pumping Equipment.**—Establishments primarily engaged in manufacturing pumps and pumping equipment for general industrial use. Establish-

ments primarily engaged in manufacturing measuring and dispensing pumps for gasoline service station use are classified in industry 3586; and air and gas compressors in industry 3563.

3562 Ball and Roller Bearings.—Establishments primarily engaged in manufacturing ball and roller bearings (including ball or roller bearing pillow block, flange, take-up cartridge, and hanger units) and parts. Establishments primarily engaged in manufacturing bearings, except ball and roller, are classified in industry 3568.

3563 Air and Gas Compressors.—Establishments primarily engaged in manufacturing air and gas compressors for general industrial use. Establishments primarily engaged in manufacturing refrigeration compressors and compressing units are classified in industry 3585; and pumps and pumping equipment in industry 3561.

3564 Blowers and Exhaust and Ventilation Fans.—Establishments primarily engaged in manufacturing industrial and commercial blowers, industrial and commercial exhaust and ventilating fans, and attic fans. Establishments primarily engaged in manufacturing air-conditioning units are classified in industry 3585, and free air-circulating fans for use on desks, pedestals, or wall brackets as well as household window-type fans and roll-abouts, kitchen and household ventilating and exhaust fans in industry 3634.

3565 Industrial Patterns.—Establishments primarily engaged in manufacturing industrial patterns.

3566 Speed Changers, Industrial High Speed Drives, and Gears.—Establishments primarily engaged in manufacturing speed changers, industrial high-speed drives, and gears. Establishments primarily engaged in manufacturing these items for motor vehicles are classified in industry 3714, and for aircraft in industry 3728.

3567 Industrial Process Furnaces and Ovens.—Establishments primarily engaged in manufacturing industrial process furnaces, ovens, induction and dielectric heating equipment, and related devices.

3568 Mechanical Power Transmission Equipment, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing mechanical power transmission equipment and parts for industrial machinery. Establishments primarily engaged in manufacturing automotive, tank, and tractor power transmission equipment are classified in industry 3714; aircraft power transmission equipment in industry 3728; ball and roller bearings in industry 3562; and speed changers, industrial high speed drives, and gears in industry 3566.

3569 General Industrial Machinery and Equipment, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing machinery, equipment, and components for general industrial use, and for which no special classification is provided. Machine shops primarily engaged in producing machine and equipment parts, usually on a job or order basis, are classified in industry 3599.

357 OFFICE, COMPUTING, AND ACCOUNTING MACHINES

3572 and 3579 Typewriters and Office Machines, Not Elsewhere Classified.—The Typewriters Industry includes establishments primarily engaged in manufacturing typewriters and parts, including coded media typewriters and specialized composing typewriters. This industry is combined with the Office Machines, N.E.C., Industry which includes establishments primarily engaged in manufacturing office machines and devices not elsewhere classified. Establishments primarily engaged in manufacturing computing machines are classified in industry 3573, cash registers in industry 3574, and photocopy and microfilm equipment in industry 3861 (Photographic Equipment and Supplies).

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for these industries as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system. However, it was necessary to combine industry 3572, Typewriters, with industry 3579, Office Machines, N.E.C., to avoid disclosing the operation of individual companies.

3573 Electronic Computing Equipment.—Establishments primarily engaged in manufacturing electronic computers and peripheral equipment and/or major

logical components intended for use in electronic computer systems. Included are general-purpose electronic analog computers, electronic digital computers, military, ruggedized, and special purpose computers. The electronic computers may be used for data processing or may be incorporated as components of control equipment for industrial use, and as components of equipment used in weapons and weapons systems, space and oceanographic exploration, and transportation and other systems. Electronic computer systems contain high-speed arithmetic and program control units, on-line information storage devices, input/output equipment, terminals, data communication devices, and punched card equipment. Examples of input/output equipment are converters (card and/or tape) and readers and printers. Examples of storage devices are magnetic drums and disks magnetic cores and magnetic film memories. In addition to providing technical manuals necessary for the operation and maintenance of the equipment, establishments in this industry usually furnish general-purpose computer programs and basic operating systems programs needed for effective use of the computer system. Establishments primarily producing rebuilt electronic computers are also included in this industry. Establishments primarily engaged in manufacturing desk calculators, cash registers, accounting machines and similar equipment that are operator-paced are classified in industry 3574; electrical and electronic test equipment in industry 3825; industrial controls, including electronic, in industry 3622; and industrial process instruments in industry 3823.

3574 **Calculating and Accounting Machines, Except Electronic Computing Equipment.**—Establishments primarily engaged in manufacturing desk calculators, adding and accounting machines, cash registers, and similar equipment. Included are electronic calculating and accounting machines which, even when augmented by attachments or which include program control or have input/output capabilities, must be paced by operator intervention. Establishments primarily engaged in manufacturing electronic computing equipment are classified in industry 3573; typewriters in industry 3572; and office duplicating machines and devices, autographic registers, and other office machines in industry 3579.

3576 **Scales and Balances, Except Laboratory.**—Establishments primarily engaged in manufacturing weighing and force measuring machines and devices of all types, except those regarded as scientific apparatus for laboratory and experimental work, which are classified in industry 3811.

3579 **Typewriters and Office Machines, Not Elsewhere Classified.**—(See 3572.)

358 REFRIGERATION AND SERVICE INDUSTRY MACHINERY

3581 **Automatic Merchandising Machines.**—Establishments primarily engaged in manufacturing automatic merchandising units, also referred to as vending machines (excluding music, amusement, or gaming machines), and coin-operated mechanisms for such machines.

3582 **Commercial Laundry, Dry Cleaning, and Pressing Machines.**—Establishments primarily engaged in manufacturing laundry and dry cleaning equipment and pressing machines for commercial and industrial use. Establishments primarily engaged in manufacturing household laundry equipment, including coin-operated washers and driers, are classified in industry 3633.

3585 **Air-Conditioning and Warm-Air Heating Equipment and Commercial and Industrial Refrigeration Equipment.**—Establishments primarily engaged in manufacturing refrigeration equipment and systems and similar equipment for commercial and industrial use; complete air-conditioning units for domestic, commercial, and industrial use; and warm-air furnaces, except electric. Establishments primarily engaged in manufacturing soda fountains and beer dispensing equipment and humidifiers and dehumidifiers, except for rooms, are also classified in this industry. Establishments primarily engaged in manufacturing household refrigerators and home and farm freezers are classified in industry 3632; electric air space heaters in industry 3634; and electric warm-air furnaces and other electric comfort heating equipment in industry 3699.

3586 **Measuring and Dispensing Pumps.**—Establishments primarily engaged in manufacturing measuring and dispensing pumps commonly used in service and filling stations for dispensing gasoline, oil, and grease, including grease guns. Establishments primarily engaged in manufacturing pumps and pumping equipment for general industrial use are classified in industry 3561.

3589 **Service Industry Machines, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing machines and equipment, not elsewhere classified, for use in service industries, such as floor sanding machines, industrial vacuum cleaners, scrubbing machines, commercial cooking and food warming equipment, and commercial dishwashing machines. Establishments primarily engaged in manufacturing household electrical appliances are classified in group 363.

359 MISCELLANEOUS MACHINERY, EXCEPT ELECTRICAL

3592 **Carburetors, Pistons, Piston Rings, and Valves.**—Establishments primarily engaged in manufacturing carburetors, pistons, piston rings, and valves. Establishments primarily engaged in manufacturing metallic packing are classified in industry 3293; and those primarily engaged in manufacturing machine repair and equipment parts (except electric), on a job or order basis for others, are classified in industry 3599.

3599 **Machinery, Except Electrical, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing machinery and parts except electrical, not elsewhere classified, such as amusement park equipment, pneumatic and hydraulic cylinders, and flexible metal hose and tubing. This industry also includes establishments primarily engaged in producing or repairing machine and equipment parts, not elsewhere classified, on a job or order basis for others.

36 ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT, AND SUPPLIES

This major group includes establishments engaged in manufacturing machinery, apparatus, and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy. The manufacture of household appliances is included in this group, but industrial machinery and equipment powered by built-in or detachable electric motors is classified in SIC Major Group 35. Establishments primarily engaged in manufacturing instruments for indicating, measuring, and recording electrical quantities are classified in industry 3825.

361 ELECTRIC TRANSMISSION AND DISTRIBUTION EQUIPMENT

3612 **Power, Distribution, and Specialty Transformers.**—Establishments primarily engaged in manufacturing power, distribution, instrument, and specialty transformers. Establishments primarily engaged in manufacturing radio frequency or voice frequency transformers, coils, or chokes are classified in industry 3677, and resistance welder transformers in industry 3623.

3613 **Switchgear and Switchboard Apparatus.**—Establishments primarily engaged in manufacturing switchgear and switchboard apparatus. Important products of this industry include power switches, circuit breakers, power switching equipment, and similar switchgear for general industrial application; switchboards and cubicles, control and metering panels, power fuse mountings, and similar switchboard apparatus and supplies. Establishments primarily engaged in manufacturing industrial controls are classified in industry 3622, and those manufacturing current-carrying wiring devices in industry 3643.

362 ELECTRICAL INDUSTRIAL APPARATUS

3621 **Motors and Generators.**—Establishments primarily engaged in manufacturing electric motors (except starting motors) and power generators; motor generator sets; railway motors and control equipment; and motors, generators, and control equipment for gasoline, electric, and oil-electric buses and trucks. Establishments primarily engaged in manufacturing turbo-generators are classified in industry 3511, and starting motors and battery charging generators for internal combustion engines in industry 3694.

3622 **Industrial Controls.**—Establishments primarily engaged in manufacturing motor starters and controllers; control accessories, electronic controls, and other industrial controls. Establishments primarily engaged in manufacturing automatic temperature controls are classified in industry 3822, and industrial process instruments in industry 3823.

3623 **Welding Apparatus, Electric.**—Establishments primarily engaged in manufacturing electric welding apparatus and accessories. Establishments primarily engaged in coating welding wire from purchased wire or from wire drawn in the same establishment are also included. Establishments primarily engaged

in manufacturing gas welding apparatus are classified in industry 3549, and laser, electron beam, and ultrasonic welding machines and equipment in industry 3662.

3624 **Carbon and Graphite Products.**—Establishments primarily engaged in manufacturing lighting carbons; carbon, graphite, and metal-graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; and other carbon, graphite, and metal-graphite products.

3629 **Electrical Industrial Apparatus, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing industrial and commercial electric apparatus and equipment, not elsewhere classified, such as blasting machines, and fixed and variable capacitors, condensers, and rectifiers for industrial applications. Establishments primarily engaged in manufacturing condensers, capacitors, and rectifiers for electronic end products are classified in SIC group 367.

363 HOUSEHOLD APPLIANCES

3631 **Household Cooking Equipment.**—Establishments primarily engaged in manufacturing household cooking equipment, such as stoves, ranges, and ovens, including both electric and nonelectric types. Establishments primarily engaged in manufacturing household cooking appliances, such as hot plates, grills, percolators, and toasters, are classified in industry 3634. Establishments primarily engaged in manufacturing commercial cooking equipment are classified in industry 3589.

3632 **Household Refrigerators and Home and Farm Freezers.**—Establishments primarily engaged in manufacturing household refrigerators and home and farm freezers. Establishments primarily engaged in manufacturing commercial and industrial refrigeration equipment, packaged room coolers, and all refrigeration compressor and condenser units are classified in industry 3585, and room dehumidifiers are classified in industry 3634.

3633 **Household Laundry Equipment.**—Establishments primarily engaged in manufacturing laundry equipment, such as washing machines, wringers, driers, and ironers, for household use. This industry also includes coin-operated washers and driers. Establishments primarily engaged in manufacturing commercial laundry equipment are classified in industry 3582.

3634 **Electric Housewares and Fans.**—Establishments primarily engaged in manufacturing electric housewares for heating, cooking, and other purposes; and electric fans, including ventilating and exhaust household-type fans. Important products of this industry include electric air heaters, electrically heated bed coverings, blenders, broilers, deep-fat fryers, flat irons, food mixers, hot plates, percolators and coffeemakers, roasters, toasters, desk and bracket fans, hassock or floor fans, window-type propeller fans, roll-about fans and household and kitchen ventilating and exhaust fans. Establishments primarily engaged in manufacturing industrial and commercial blowers, industrial and commercial exhaust and ventilating fans, and attic fans are classified in industry 3564.

3635 **Household Vacuum Cleaners.**—Establishments primarily engaged in manufacturing vacuum cleaners for household use. Establishments primarily engaged in manufacturing vacuum cleaners for industrial use are classified in industry 3589, and built-in vacuum cleaner systems in industry 1796.

3636 **Sewing Machines.**—Establishments primarily engaged in manufacturing sewing machines for domestic and industrial use.

3639 **Household Appliances, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing household appliances, not elsewhere classified, such as water heaters, dishwashers, and food waste disposal units.

364 ELECTRIC LIGHTING AND WIRING EQUIPMENT

3641 **Electric Lamps.**—Establishments primarily engaged in manufacturing electric bulbs, tubes, and related light sources. Important products of this industry include incandescent filament lamps, vapor and fluorescent lamps, photoflash and photoflood lamps, electrotherapeutic lamp units for ultra-violet and infra-red radiation, and other electric light sources. Establishments primarily engaged in manufacturing glass blanks for bulbs are classified in industry 3229; and lamp components, such as supports, filaments, lead-in wires, and cold cathode fluorescent lamp electrodes, in industry 3699.

3643 Current-Carrying Wiring Devices.—Establishments primarily engaged in manufacturing current-carrying wiring devices. Important products of this industry include attachment plugs and caps, convenience outlets, lamp sockets and receptacles, snap switches, conductor connectors, overhead trolley line material, rail bonds for both propulsion and signal circuits, lightning arrestors, and other lightning protective equipment.

3644 Noncurrent-Carrying Wiring Devices.—Establishments primarily engaged in manufacturing noncurrent-carrying wiring devices. Important products of this industry include conduits and fittings; electrical insulators and insulation materials, except porcelain insulators (industry 3264) and glass insulators (industry 3229); outlet, switch and fuse boxes; and pole line hardware.

3645 Residential Electric Lighting Fixtures.—Establishments primarily engaged in manufacturing residential electric lighting fixtures and equipment, fixed or portable. Establishments primarily engaged in producing glassware for lighting fixtures are classified in SIC Major Group 32; electric light bulbs, tubes, and related light sources in industry 3641; lampshades except glass and metal in industry 3999; and nonelectric fixtures and portable electric flashlights, lanterns, and similar lamps in industry 3648.

3646 Commercial, Industrial, and Institutional Electric Lighting Fixtures.—Establishments primarily engaged in manufacturing commercial, industrial, and institutional electric lighting fixtures. Establishments primarily engaged in producing glassware for lighting fixtures are classified in SIC Major Group 32; residential lighting fixtures in industry 3645; and vehicular lighting fixtures in industry 3647.

3647 Vehicular Lighting Equipment.—Establishments primarily engaged in manufacturing vehicular lighting equipment.

3648 Lighting Equipment, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing lighting fixtures and equipment, electric and nonelectric, not elsewhere classified, including flashlights and similar portable lamps, searchlights, ultraviolet lamp fixtures, and infra-red lamp fixtures. Establishments primarily engaged in manufacturing electric light bulbs, tubes, and related light sources are classified in industry 3641, and those producing glassware for lighting fixtures are classified in SIC Major Group 32.

365 RADIO AND TELEVISION RECEIVING EQUIPMENT, EXCEPT COMMUNICATION TYPES

3651 Radio and Television Receiving Sets, Except Communication Types.—Establishments primarily engaged in manufacturing electronic equipment for home entertainment, including auto radios and tape players. This industry also includes establishments primarily engaged in manufacturing public address systems and music distribution apparatus. Establishments primarily engaged in manufacturing phonograph records and prerecorded tape are classified in industry 3652. Establishments primarily engaged in manufacturing separate cabinets for home electronic equipment are classified in SIC Major Group 25.

3652 Phonograph Records and Prerecorded Magnetic Tape.—Establishments primarily engaged in manufacturing phonograph records and prerecorded magnetic tape. Establishments primarily engaged in manufacturing electronic equipment for home entertainment, except records and prerecorded magnetic tape, are classified in industry 3651.

366 COMMUNICATION EQUIPMENT

3661 Telephone and Telegraph Apparatus.—Establishments primarily engaged in manufacturing wire telephone and telegraph equipment and parts especially designed for telephone and telegraph use.

3662 Radio and Television Transmitting, Signaling, and Detection Equipment and Apparatus.—Establishments primarily engaged in manufacturing (1) radio and television broadcasting equipment; (2) electric communication equipment and parts, except telephone and telegraph; (3) electronic field detection apparatus, light and heat emission operating apparatus, object detection apparatus and navigational electronic equipment, and aircraft and missile control systems; (4) high-energy particle accelerator systems and equipment designed and sold as a complete package for radiation therapy, irradiation, radiographic inspection, and research (linear accelerators, betatrons, dynamotrons, Vandergraff generators, resonant transformers, insulating core transformers, etc.); (5) high-energy particle electronic equipment and accessories sold separately for the construction of linear accelerators, cyclotrons, synchrotrons, and other high-energy research installations (transmitters/modulators, accelerating wave-

guide structures, pulsed electron guns, vacuum systems, cooling systems, etc.); and (6) other electric and electronic communication and signaling products not elsewhere classified. Establishments primarily engaged in manufacturing transmitting tubes are classified in industry 3673.

367 ELECTRONIC COMPONENTS AND ACCESSORIES

3671 Radio and Television Receiving-Type Electron Tubes, Except Cathode Ray.—Establishments primarily engaged in manufacturing radio and television receiving-type electron tubes, except cathode ray tubes. Establishments primarily engaged in manufacturing television receiving-type cathode ray tubes are classified in industry 3672; transmitting tubes in industry 3673; and X-ray tubes in industry 3693.

3672 Cathode Ray Television Picture Tubes.—Establishments primarily engaged in manufacturing television receiving-type cathode ray tubes. Establishments primarily engaged in manufacturing other radio and television receiving-type electron tubes are classified in industry 3671; and transmitting tubes in industry 3673.

3673 Transmitting, Industrial, and Special Purpose Electron Tubes.—Establishments primarily engaged in manufacturing transmitting, industrial, and special purpose electron tubes. Establishments primarily engaged in manufacturing radio and television receiving tubes are classified in industry 3671; television receiving-type cathode ray tubes in industry 3672; and X-ray tubes in industry 3693.

3674 Semiconductors and Related Devices.—Establishments primarily engaged in manufacturing semiconductor and related solid state devices, such as semiconductor diodes and stacks, including rectifiers, integrated microcircuits (semiconductor networks), transistors, solar cells, and light sensing and emitting semiconductor (solid state) devices.

3675 Electronic Capacitors.—Establishments primarily engaged in manufacturing electronic capacitors.

3676 Resistors, for Electronic Applications.—Establishments primarily engaged in manufacturing resistors for electronic end products. Establishments primarily engaged in manufacturing resistors for telephone and telegraph apparatus are classified in industry 3661.

3677 Electronic Coils, Transformers, and Other Inductors.—Establishments primarily engaged in manufacturing electronic coils, transformers, and inductors. Establishments primarily engaged in manufacturing transformers and inductors for telephone and telegraph apparatus are classified in industry 3661; electric lamps in industry 3641; and semiconductor (solid state) and related devices in industry 3674.

3678 Connectors, for Electronic Applications.—Establishments primarily engaged in manufacturing electronic connectors. Establishments primarily engaged in manufacturing electronic capacitors are classified in industry 3675; and electronic coils, transformers, and other inductors in industry 3677.

3679 Electronic Components, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing electronic components, not elsewhere classified, such as receiving antennas, printed circuits, switches, and wave guides.

369 MISCELLANEOUS ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES

3691 Storage Batteries.—Establishments primarily engaged in manufacturing storage batteries.

3692 Primary Batteries, Dry and Wet.—Establishments primarily engaged in manufacturing primary batteries, dry or wet.

3693 Radiographic X-ray, Fluoroscopic X-ray, Therapeutic X-ray, and Other X-ray Apparatus and Tubes; Electromedical and Electrotherapeutic Apparatus.—Establishments primarily engaged in manufacturing radiographic X-ray, fluoroscopic X-ray, and therapeutic X-ray apparatus and tubes for medical, industrial, research and control applications. This industry also includes establishments primarily engaged in manufacturing electromedical and electrotherapeutic apparatus except electrotherapeutic lamp units for ultra-violet and infra-red radiation (industry 3641). Establishments primarily engaged in manufacturing radio receiving-type tubes are classified in industry 3671; television receiving cathode ray tubes in industry 3672; and transmitting tubes in industry 3673.

3694 Electrical Equipment for Internal Combustion Engines.—Establishments primarily engaged in manufacturing electrical equipment for internal combustion engines. Important products of this industry

include armatures, starting motors, alternators, and generators for automobiles and aircraft; and ignition apparatus for internal combustion engines, including spark plugs, magnetos, coils, and distributors.

3699 **Electrical Machinery, Equipment, and Supplies, Not Elsewhere Classified.**—Establishments primarily in manufacturing electrical machinery, equipment, and supplies, not elsewhere classified, such as appliance and extension cords, bells and chimes, and insect traps.

37 TRANSPORTATION EQUIPMENT

This major group includes establishments engaged in manufacturing equipment for transportation of passengers and cargo by land, air, and water. Important products produced by establishments classified in this major group include motor vehicles, aircraft, guided missiles and space vehicles, ships, boats, railroad equipment, and miscellaneous transportation equipment such as motorcycles, bicycles, and snowmobiles. Establishments primarily engaged in manufacturing mobile homes are classified in industry 2451.

371 MOTOR VEHICLES AND MOTOR VEHICLE EQUIPMENT

3711 **Motor Vehicles and Car Bodies.**—This industry comprises establishments primarily engaged in the manufacture of passenger cars, passenger car bodies, trucks, buses, and wheeled combat vehicles. Complete car chassis and complete truck chassis, with or without cab, are also included in this industry. Establishments primarily engaged in the manufacture of trucks or buses on purchased chassis are classified in industry 3713; tanks, self-propelled weapons, and other military vehicles in industry 3795; and motor homes produced on purchased chassis in industry 3716.

3713 **Truck and Bus Bodies.**—Establishments primarily engaged in manufacturing truck and bus bodies for sale separately or for assembly on purchased chassis. Establishments primarily engaged in manufacturing complete trucks and buses are classified in industry 3711, stamped body parts for trucks and buses in industry 3465, and truck trailers and demountable cargo containers in industry 3715.

3714 **Motor Vehicle Parts and Accessories.**—Establishments primarily engaged in manufacturing motor vehicle parts and accessories, but not engaged in manufacturing complete motor vehicles or passenger car bodies. Establishments primarily engaged in manufacturing or assembling complete automobiles and trucks are classified in industry 3711, tires and tubes in industry 3011, automobile glass in SIC Major Group 32, automobile stampings in industry 3465, ignition systems in industry 3694, storage batteries in industry 3691, and carburetors, pistons, rings, and valves in industry 3592.

3715 **Truck Trailers.**—Establishments primarily engaged in manufacturing truck trailers, truck trailer chassis for sale separately, detachable trailer bodies (cargo containers) for sale separately, and detachable trailer (cargo container) chasis for sale separately.

3716 **Motor Homes Produced on Purchased Chassis.**—This industry comprises establishments primarily engaged in the manufacture of motor homes produced on purchased chassis. Establishments primarily engaged in the manufacture of motor homes produced on chassis of own manufacture are classified in industry 3711.

The Motor Homes Produced on Purchased Chassis is included for the first time in the 1977 census.

372 AIRCRAFT AND PARTS

3721 **Aircraft.**—Establishments primarily engaged in manufacturing or assembling complete aircraft. This industry also includes establishments primarily engaged in research and development on aircraft or in factory-type aircraft modification on a contract or fee basis. Establishments primarily engaged in manufacturing engines, propellers, and other aircraft parts and auxiliary equipment are classified in industries 3724 and 3728; and those producing guided missiles and space vehicles and parts are classified in SIC group 376.

3724 **Aircraft Engines and Engine Parts.**—Establishments primarily engaged in manufacturing aircraft engines and engine parts. Research and development on aircraft engines is included in this industry. Establishments primarily engaged in manufacturing guided missile and space vehicle propulsion units and parts are classified in industry 3764.

3728 **Aircraft Parts and Auxiliary Equipment, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing aircraft parts and auxiliary equip-

ment not elsewhere classified. Research and development on aircraft parts is included in this industry. Establishments primarily engaged in manufacturing or assembling complete aircraft are classified in industry 3721, aircraft engines and parts in industry 3724, aeronautical instruments in industry 3811, aeronautical electrical equipment in industry 3694, and guided missile and space vehicle parts and auxiliary equipment in industry 3769.

373 SHIP AND BOAT BUILDING AND REPAIRING

3731 Ship Building and Repairing.—Establishments primarily engaged in building and repairing all types of ships, barges, and lighters, whether propelled by sail or motor power or towed by other craft. This industry also includes the conversion and alteration of ships. Establishments primarily engaged in fabricating structural assemblies or components for ships, or subcontractors engaged in ship painting, joinery, carpentry work, electrical wiring installation, etc., are classified in other industries.

3732 Boat Building and Repairing.—Establishments primarily engaged in building and repairing all types of boats. Establishments primarily engaged in cleaning and storing boats and in the rental of dock space and yacht clubs are classified in nonmanufacturing industries. Establishments primarily engaged in manufacturing rubber and nonrigid plastic boats are classified in SIC Major Group 30.

374 RAILROAD EQUIPMENT

3743 Railroad Equipment.—Establishments primarily engaged in building and rebuilding locomotives (including frames and parts not elsewhere classified) of any type or gage; and railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service. This industry also includes establishments primarily engaged in manufacturing trackless trolley buses. Establishments primarily engaged in manufacturing mining cars are classified in industry 3532. Repair shops, owned and operated by railroads or local transit companies, rebuilding or repairing locomotives or cars, or building new locomotives or cars for their own account, are classified in SIC Major Groups 40 and 41.

375 MOTORCYCLES, BICYCLES, AND PARTS

3751 Motorcycles, Bicycles, and Parts.—Establishments primarily engaged in manufacturing motorcycles, bicycles, and similar equipment and parts. Establishments primarily engaged in assembling motorcycles or bicycles from purchased parts are also included in this industry. Establishments primarily engaged in manufacturing children's vehicles, except bicycles, are classified in industry 3944. Establishments primarily engaged in manufacturing golf carts and other similar personnel carriers are classified in industry 3799.

376 GUIDED MISSILES AND SPACE VEHICLES AND PARTS

3761 Guided Missiles and Space Vehicles.—Establishments primarily engaged in manufacturing complete guided missiles and space vehicles. Research and development and other services on or for guided missiles and space vehicles are included in this industry. Establishments primarily engaged in manufacturing guided missile and space vehicle propulsion units and propulsion unit parts are classified in industry 3764; space satellite and guided missile and space vehicle airborne and ground guidance, checkout, and launch electronic systems and components in industry 3662; and guided missile and space vehicle airframes, nose cones, and space capsules in industry 3769.

3764 Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts.—Establishments primarily engaged in manufacturing guided missile propulsion units and propulsion unit parts. Research and development on guided missile and space vehicle propulsion units and propulsion unit parts is also included in this industry.

3769 Guided Missile and Space Vehicle Parts and Auxiliary Equipment, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing guided missile and space vehicle parts and auxiliary equipment not elsewhere classified. Research and development on guided missile and space vehicle parts and auxiliary equipment, not elsewhere classified, is also included in this industry. Establishments primarily engaged in manufacturing navigational and guidance systems are classified in industry 3662.

379 MISCELLANEOUS TRANSPORTATION EQUIPMENT

3792 Travel Trailers and Campers.—Establishments primarily engaged in manufacturing travel trailers for attachment to passenger cars or other vehicles, pickup coaches (campers) or caps (covers) for mounting on pickup trucks and self-contained motor homes. Travel trailers are generally 35 feet long or less, 8 feet wide or less, and have storage facilities for water and waste. Establishments primarily engaged in manufacturing mobile homes are classified in industry 2451.

3795 Tanks and Tank Components.—Establishments primarily engaged in manufacturing or assembling complete tanks and specialized components for tanks. Establishments primarily engaged in manufacturing military vehicles other than tanks are classified in SIC group 371, and tank engines in industry 3519.

3799 Transportation Equipment, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing transportation equipment not elsewhere classified. Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, and stackers are classified in industry 3537, and children's vehicles except bicycles in industry 3944.

38 MEASURING, ANALYZING, AND CONTROLLING INSTRUMENTS; PHOTOGRAPHIC, MEDICAL, AND OPTICAL GOODS; WATCHES AND CLOCKS

This major group includes establishments engaged in manufacturing instruments (including professional and scientific) for measuring, testing, analyzing, and controlling, and their associated sensors and accessories; optical instruments and lenses; surveying and drafting instruments; surgical, medical, and dental instruments, equipment, and supplies; opthalmic goods; photographic equipment and supplies; and watches and clocks.

381 ENGINEERING, LABORATORY, SCIENTIFIC, AND RESEARCH INSTRUMENTS AND ASSOCIATED EQUIPMENT

3811 Engineering, Laboratory, Scientific, and Research Instruments and Associated Equipment.—Establishments primarily engaged in manufacturing engineering, laboratory, and scientific instruments, including nautical, navigational, aeronautical, surveying, and drafting equipment and instruments for laboratory work and scientific research (except optical instruments—industry 3832). Establishments primarily engaged in manufacturing surgical and medical instruments are classified in industry 3841; dental instruments and equipment in industry 3843; measuring, analyzing, and controlling instruments, including instruments for measuring electrical quantities and characteristics, in SIC group 382; watches and clocks in industry 3873; machinists' precision measuring tools in industry 3545; and measuring and dispensing pumps in industry 3586.

382 MEASURING AND CONTROLLING INSTRUMENTS

3822 Automatic Controls for Regulating Residential and Commercial Environments and Appliances.—Establishments primarily engaged in manufacturing temperature and related controls for heating and air-conditioning installations and refrigeration applications, which are electrically, electronically, or pneumatically actuated, and which measure and control variables such as temperature and humidity; and automatic regulators used as components of household appliances. Establishments primarily engaged in manufacturing industrial process controls are classified in industry 3823; motor control switches in industry 3622, switches for household appliances in industry 3643, and appliance timers in industry 3873.

3823 Industrial Instruments for Measurement, Display, and Control of Process Variables; and Related Products.—Establishments primarily engaged in manufacturing industrial instruments and related products for measuring, displaying (indicating and/or recording), transmitting, and controlling process variables in manufacturing, energy conversion, and public service utilities. These instruments operate mechanically, pneumatically, electronically, or electrically to measure process variables such as temperature, humidity, pressure, vacuum, combustion, flow, level, viscosity, density, acidity, alkalinity, specific gravity, gas and liquid concentration, sequence, time interval, mechanical motion, and rotation. Establishments primarily engaged in manufacturing electrical integrating meters are classified in industry 3825; residential and commercial comfort controls in industry 3822; all liquid-in-glass and bimetal thermometers and glass hydrometers in industry 3829; recorder charts in SIC group 275, and optical instruments in industry 3832.

3824 **Totalizing Fluid Meters and Counting Devices.**—Establishments primarily engaged in manufacturing totalizing (registering) meters, monitoring fluid flows, such as watermeters and gasmeters; and producers of mechanical and electromechanical counters and associated metering devices. Establishments primarily engaged in manufacturing electricity integrating meters and electronic frequency counters are classified in industry 3825; and industrial process instruments in industry 3823.

3825 **Instruments for Measuring and Testing of Electricity and Electrical Signals.**—Establishments primarily engaged in manufacturing instruments for measuring the characteristics of electricity and electrical signals, such as voltmeters, ammeters, watt-meters, watt-hour meters, demand meters, and equipment for testing the electrical characteristics of electrical, radio, and communication circuits and of internal combustion engines. Establishments primarily engaged in the manufacturing of electronic checkout, monitoring, evaluating, and other electronic support equipment for electronic navigational, radar, sonar, and other communications systems are classified in industry 3662.

3829 **Measuring and Controlling Devices, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing measuring and controlling devices, not elsewhere classified, including testing instruments to determine the physical properties of materials, nuclear instruments, aircraft engine instruments, and liquid-in-glass and bimetal thermometers.

383 OPTICAL INSTRUMENTS AND LENSES

3832 **Optical Instruments and Lenses.**—Establishments primarily engaged in manufacturing instruments that measure an optical property; apparatus, except photographic, that projects or magnifies, such as binoculars, prisms, and lenses; optical sighting and fire control equipment; and related analytical instruments. Establishments primarily engaged in manufacturing eyeglass lenses, frames, or fittings are classified in industry 3851; separate computers in industry 3573; and electronic tracking and fire control systems in industry 3662.

384 SURGICAL, MEDICAL, AND DENTAL INSTRUMENTS AND SUPPLIES

3841 **Surgical and Medical Instruments and Apparatus.**—Establishments primarily engaged in manufacturing medical, surgical, ophthalmic, and veterinary instruments and apparatus. Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in industry 3842; and electrotherapeutic, electromedical, and X-ray apparatus in industry 3693.

3842 **Orthopedic, Prosthetic, and Surgical Appliances and Supplies.**—Establishments primarily engaged in manufacturing orthopedic, prosthetic, and surgical appliances and supplies, arch supports, and other foot appliances; fracture appliances, elastic hosiery, abdominal supporters, braces, and trusses; bandages; surgical gauze and dressings; sutures; adhesive tapes and medicated plasters; and personal safety appliances and equipment. Establishments primarily engaged in manufacturing surgical and medical instruments are classified in industry 3841. Establishments primarily engaged in manufacturing appliances and in the personal fitting to the individual prescription of a physician are classified in trade industries.

3843 **Dental Equipment and Supplies.**—Establishments primarily engaged in manufacturing artificial teeth, dental metals, alloys and amalgams, and a wide variety of equipment, instruments, and supplies used by dentists, dental laboratories, and dental colleges. Dental laboratories constructing artificial dentures, bridges, inlays, and other dental restorations on specifications from dentists are classified in industry 8072.

385 OPHTHALMIC GOODS

3851 **Ophthalmic Goods.**—Establishments primarily engaged in manufacturing opthalmic frames, lenses, and sunglass lenses. Establishments primarily engaged in manufacturing slit lamps are classified in industry 3841, and molded glass blanks in industry 3229. Establishments primarily engaged in grinding lenses and fitting glasses to prescription are classified in trade.

386 PHOTOGRAPHIC EQUIPMENT AND SUPPLIES

3861 **Photographic Equipment and Supplies.**—Establishments primarily engaged in manufacturing (1) photographic apparatus, equipment, parts, attachments, and accessories, such as still and motion

picture cameras and projection apparatus; photocopy and microfilm equipment; blueprinting and diazotype (white printing) apparatus and equipment; and other photographic equipment; and (2) sensitized film, paper, cloth, plates, and prepared photographic chemicals for use therewith. Establishments primarily engaged in manufacturing photographic paper stock (unsensitized), and paper mats, mounts, easels, and folders for photographic use are classified in SIC Major Group 26; photographic lenses in industry 3832; photographic glass in SIC Major Group 32; chemicals for technical purposes, not specifically prepared and packaged for use in photography, in SIC Major Group 28; and photographic flash, flood enlarger, and projection lamps in industry 3641.

387 WATCHES, CLOCKS, CLOCKWORK OPERATED DEVICES, AND PARTS

3873 Watches, Clocks, Clockwork Operated Devices, and Parts.—Establishments primarily engaged in manufacturing clocks (including electric), watches, watchcases, mechanisms for clockwork operated devices, and clock and watch parts. This industry includes establishments primarily engaged in assembling clocks and watches from purchased movements and cases. Establishments primarily engaged in manufacturing time clocks are classified in industry 3579, glass crystals in industry 3231, and unbreakable crystals in industry 3079.

39 MISCELLANEOUS MANUFACTURING INDUSTRIES

This major group includes establishments primarily engaged in manufacturing products not classified in any other manufacturing group. Industries in this group fall into the following categories: Jewelry, silverware and plated ware; musical instruments; toys, sporting and athletic goods; pens, pencils, and other office and artists' materials; buttons, costume novelties, miscellaneous notions; brooms and brushes; caskets; and other miscellaneous manufacturing industries.

391 JEWELRY, SILVERWARE, AND PLATED WARE

3911 Jewelry, Precious Metal.—Establishments primarily engaged in manufacturing jewelry and other articles worn on or carried about the person, made of precious metals with or without stones (including the setting of stones where used), including cigarette cases and lighters, vanity cases and compacts; trimmings for umbrellas and canes; and jewel settings and mountings. Establishments primarily engaged in manufacturing costume jewelry from nonprecious metals and other materials are classified in industry 3961.

3914 Silverware, Plated Ware, and Stainless Steel Ware.—Establishments primarily engaged in manufacturing flatware (including knives, forks, and spoons), hollowware, toiletware, ecclesiastical ware, and related products made of sterling silver; of metal plated with silver, gold, or other metal; of nickel silver; of pewter; or of stainless steel.

3915 Jewelers' Findings and Materials and Lapidary Work.—Establishments primarily engaged in manufacturing unassembled jewelry parts, and stock shop products such as sheet, wire, and tubing; and establishments of lapidaries primarily engaged in cutting, slabbing, tumbling, carving, engraving, polishing, or faceting stones from natural or manmade precious or semiprecious gem raw materials, either for sale or on a contract basis for the trade; in recutting, repolishing, and setting gem stones; or in cutting, drilling, and otherwise preparing jewels for instruments, dies, watches, chronometers, and other industrial uses. This industry includes the drilling, sawing, and peeling of real or cultured pearls, but does not include the manufacture of artificial pearls (industry 3961).

393 MUSICAL INSTRUMENTS

3931 Musical Instruments.—Establishments primarily engaged in manufacturing pianos, with or without player attachments; organs; other musical instruments; and parts and accessories for musical instruments.

394 TOYS AND AMUSEMENT, SPORTING, AND ATHLETIC GOODS

3942 Dolls.—Establishments primarily engaged in manufacturing dolls, doll parts, and doll clothing. Establishments primarily engaged in manufacturing stuffed toy animals are also included in this industry.

3944 **Games, Toys, and Children's Vehicles; Except Dolls and Bicycles.**—Establishments primarily engaged in manufacturing games and game sets for adults and children, and mechanical and nonmechanical toys. Important products of this industry include games such as chess, checkers, dominoes, puzzles, and other indoor games; and toys, such as toy furniture, doll carriages and carts, construction sets, mechanical trains, toy guns and air rifles, and other mechanical games and toys; baby carriages and strollers; children's velocipedes and tricycles, coaster wagons, play cars, sleds, and other children's outdoor wheel goods and vehicles, except bicycles (industry 3751). Establishments primarily engaged in manufacturing dolls are classified in industry 3942; and sporting and athletic goods for children and adults in industry 3949.

3949 **Sporting and Athletic Goods, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing sporting and athletic goods, not elsewhere classified, such as fishing tackle; golf and tennis goods; baseball, football, basketball, and boxing equipment; roller skates and ice skates; gymnasium and playground equipment; billiard and pool tables; and bowling alleys and equipment. Establishments primarily engaged in manufacturing athletic apparel are classified in SIC Major Group 23, small arms ammunition in industry 3482, and firearms in industry 3484.

395 PENS, PENCILS, AND OTHER OFFICE AND ARTISTS' MATERIALS

3951 **Pens, Mechanical Pencils, and Parts.**—Establishments primarily engaged in manufacturing pens, pen points, fountain pens, ballpoint pens, refill cartridges, porous-tipped felt tip markers, and parts.

3952 **Lead Pencils, Crayons, and Artists' Materials.**—Establishments primarily engaged in manufacturing lead pencils, pencil leads, and crayons; and materials and equipment for artwork, such as airbrushes, drawing tables and boards, palettes, sketch boxes, pantographs, artists' colors and waxes, pyrography goods, drawing inks, and drafting materials. Establishments primarily engaged in manufacturing mechanical pencils are classified in industry 3951, and drafting instruments in industry 3811.

3953 **Marking Devices.**—Establishments primarily engaged in manufacturing rubber and metal hand stamps, dies, and seals; steel letters and figures; and stencils for use in painting or marking. Establishments primarily engaged in manufacturing felt tip markers are classified in industry 3951.

3955 **Carbon Paper and Inked Ribbons.**—Establishments primarily engaged in manufacturing carbon paper for business machines, sales books, etc.; spirit or gelatin process and other stencil paper; and inked or carbon ribbons for business machines.

396 COSTUME JEWELRY, COSTUME NOVELTIES, BUTTONS, AND MISCELLANEOUS NOTIONS, EXCEPT PRECIOUS METAL

3961 **Costume Jewelry and Costume Novelties, Except Precious Metal.**—Establishments primarily engaged in manufacturing costume jewelry, costume novelties, and ornaments made of all materials, except precious metal, precious or semiprecious stones, and rolled gold plate and gold filled materials (industry 3911).

3962 **Feathers, Plumes, and Artificial Trees and Flowers.**—Establishments primarily engaged in manufacturing artificial trees (including Christmas trees), flowers, fruits, and foliage made from all materials except glass; in producing fancy feathers, plumes, and articles made principally of feathers and plumes. Establishments primarily engaged in manufacturing artificial flowers, fruits, and foliage from glass are classified in industry 3231.

3963 **Buttons.**—Establishments primarily engaged in manufacturing buttons, button parts, and button blanks and molds, of all materials except precious metal and precious or semiprecious stones (industry 3911).

3964 **Needles, Pins, Hooks and Eyes, and Similar Notions.**—Establishments primarily engaged in manufacturing notions, such as machine and hand needles, pins, hooks and eyes, eyelets, buckles, and slide and snap fasteners.

399 MISCELLANEOUS MANUFACTURING INDUSTRIES

3991 **Brooms and Brushes.**—Establishments primarily engaged in manufacturing household, industrial, and street sweeping brooms; and brushes, such as paintbrushes, toothbrushes, toilet brushes, and household and industrial brushes.

3993 Signs and Advertising Displays.—Establishments primarily engaged in manufacturing electrical, mechanical, cutout, or plate signs and advertising displays, including neon signs and advertising novelties. Sign painting shops doing business on a custom basis are classified in industry 7399. Establishments primarily engaged in manufacturing electric signal equipment are classified in industry 3662, and commercial lighting fixtures in industry 3646.

3995 Burial Caskets.—Establishments primarily engaged in manufacturing burial caskets and cases including shipping cases of wood or other material except concrete. Establishments primarily engaged in producing other goods for use by morticians are classified on the basis of the product, such as burial garments in SIC Major Group 23.

3996 Linoleum, Asphalted-Felt-Base, and Other Hard-Surface Floor Coverings, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing linoleum, asphalted-felt-base, and other hard-surface floor coverings not elsewhere classified. Establishments primarily engaged in manufacturing rubber floor coverings are classified in industry 3069, and cork floor and wall tile in industry 2499.

3999 Manufacturing Industries, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing miscellaneous fabricated products, including beauty shop and barbershop equipment; hairwork; tobacco pipes and cigarette holders; coin-operated amusement machines; matches; candles; lampshades; dressed and dyed furs; umbrellas; parasols and canes; and other articles not elsewhere classified.

APPENDIX D. Reporting Forms

This appendix contains reproductions of a representative selection of reporting forms used in the 1977 economic censuses, with emphasis on the census of manufactures.

These forms are described in section 7 of the Introduction.

DUE DATE: February 15, 1978

Form Approved: O.M.B. No. 41-R2751

FORM NC-X1 (Items 1–4)
(4-27-77)

NOTICE – Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 ECONOMIC CENSUSES

REPORT OF ORGANIZATION

Refer to this CENSUS FILE NUMBER in any correspondence pertaining to this report

CENSUS USE ONLY	Unit No.	Item code	Unit No.	Item code	Unit No.	Item code

(Please correct any errors in name and address including ZIP code)

ACT	GCS	DOC

Important – Please read

Please complete this report by February 15, 1978 and

RETURN YELLOW COPY TO – –

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47132

NOTE – Shaded boxes are for Bureau of the Census use only

Item 1 – COMPANY OWNERSHIP OR CONTROL (DOMESTIC)

Does another U.S. (domestic) company own more than 50 percent of the voting stock of your company OR have the power to control the management and policies of your company?

1 ☐ YES – *Enter the following information on the owning or controlling company and go to item 2.*

2 ☐ NO – *Go to item 2*

Name of owning or controlling company	Home office address *(Number and street, city, State, and ZIP code)*	Employer Identification Number of owning or controlling company
		–

Percent of voting stock owned – *Mark (X) one* → 1 ☐ Less than 50% 2 ☐ 50% 3 ☐ More than 50%

Item 2 – COMPANY OWNERSHIP OR CONTROL (FOREIGN)

Does a foreign entity (company, individual, government, etc.) own 10 percent or more of the voting stock or other equity rights of your company?

1 ☐ YES – *Enter the following information on the owning entity and go to item 3.*

2 ☐ NO – *Go to item 3*

Name of owning entity	Home office address *(City, country)*

Percent of ownership – *Mark (X) one* → 1 ☐ Less than 10% 2 ☐ 10–24% 3 ☐ 25–49% 4 ☐ 50% 5 ☐ 51–99% 6 ☐ 100%

Item 3 – FOREIGN AFFILIATES

Does this enterprise alone, or with its domestic affiliates, own 10 percent or more of the voting stock of an incorporated foreign business enterprise, or an equivalent interest in an unincorporated foreign business enterprise, including ownership of real estate?

1 ☐ YES – *Go to item 4*

2 ☐ NO – *Go to item 4*

Item 4 – CERTIFICATION

Name of person to contact regarding this report	Address (if different from above address)	Telephone: Area code	Telephone: Number	Telephone: Extension

This report is substantially accurate.

Signature of authorized person	Title	Date

FORM NC-X1 (Item 5A) (4-27-77)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 ECONOMIC CENSUSES
REPORT OF ORGANIZATION

Refer to this CENSUS FILE NUMBER in any correspondence pertaining to this report

Item 5A – ESTABLISHMENTS OF YOUR COMPANY AND ITS SUBSIDIARIES

This item should include an up-to-date list of all establishments of your company and its subsidiaries, for which separate establishment reports are not required, for the 1977 Economic Censuses. Please correct any errors or omissions in the prelisted information in column (a) and complete columns (b) and (c) as indicated. Estimates are acceptable if book figures are not readily available. Please read the definitions and instructions on the reverse side before completing this item.

Line No.	(a) Employer Identification (EI) Number, establishment name, address of **physical** location (including ZIP code), and major activity. *Add store or plant number, if any, and correct any errors or omissions*	(b) 1977 Establishment data. *Report the number of employees and payroll for each establishment (including part year operations)*	(c) Status of establishment at end of 1977. *Mark (X) one box and complete as indicated*
	EMPLOYER IDENTIFICATION NO. — Census use only: GEO, SC, TE	Employees (during pay period including March 12, 1977) (Number)	1 ☐ In operation 2 ☐ Sold or leased → MO DAY YR NAME OF PURCHASER OR LESSEE NUMBER AND STREET CITY STATE ZIP CODE
	NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP MAJOR ACTIVITY	Payroll for 1st quarter of 1977 before deductions (Mil. Thou. Dol.) Total annual payroll for 1977 before deductions (Mil. Thou. Dol.)	3 ☐ Closed (no new owner or operator), dismantled, or destroyed on → MO DAY YR 4 ☐ Idle or inactive (but still owned) → 5 ☐ Other – *Describe* →
Census use only	CENSUS FILE NO. TO IND TAB WT	CCS NID	
	EMPLOYER IDENTIFICATION NO. — Census use only: GEO, SC, TE	Employees (during pay period including March 12, 1977) (Number)	1 ☐ In operation 2 ☐ Sold or leased → MO DAY YR NAME OF PURCHASER OR LESSEE NUMBER AND STREET CITY STATE ZIP CODE
	NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP MAJOR ACTIVITY	Payroll for 1st quarter of 1977 before deductions (Mil. Thou. Dol.) Total annual payroll for 1977 before deductions (Mil. Thou. Dol.)	3 ☐ Closed (no new owner or operator), dismantled, or destroyed on → MO DAY YR 4 ☐ Idle or inactive (but still owned) → 5 ☐ Other – *Describe* →
Census use only	CENSUS FILE NO. TO IND TAB WT	CCS NID	
	EMPLOYER IDENTIFICATION NO. — Census use only: GEO, SC, TE	Employees (during pay period including March 12, 1977) (Number)	1 ☐ In operation 2 ☐ Sold or leased → MO DAY YR NAME OF PURCHASER OR LESSEE NUMBER AND STREET CITY STATE ZIP CODE
	NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP MAJOR ACTIVITY	Payroll for 1st quarter of 1977 before deductions (Mil. Thou. Dol.) Total annual payroll for 1977 before deductions (Mil. Thou. Dol.)	3 ☐ Closed (no new owner or operator), dismantled, or destroyed on → MO DAY YR 4 ☐ Idle or inactive (but still owned) → 5 ☐ Other – *Describe* →
Census use only	CENSUS FILE NO. TO IND TAB WT	CCS NID	
	EMPLOYER IDENTIFICATION NO. — Census use only: GEO, SC, TE	Employees (during pay period including March 12, 1977) (Number)	1 ☐ In operation 2 ☐ Sold or leased → MO DAY YR NAME OF PURCHASER OR LESSEE NUMBER AND STREET CITY STATE ZIP CODE
	NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP MAJOR ACTIVITY	Payroll for 1st quarter of 1977 before deductions (Mil. Thou. Dol.) Total annual payroll for 1977 before deductions (Mil. Thou. Dol.)	3 ☐ Closed (no new owner or operator), dismantled, or destroyed on → MO DAY YR 4 ☐ Idle or inactive (but still owned) → 5 ☐ Other – *Describe* →
Census use only	CENSUS FILE NO. TO IND TAB WT	CCS NID	
	EMPLOYER IDENTIFICATION NO. — Census use only: GEO, SC, TE	Employees (during pay period including March 12, 1977) (Number)	1 ☐ In operation 2 ☐ Sold or leased → MO DAY YR NAME OF PURCHASER OR LESSEE NUMBER AND STREET CITY STATE ZIP CODE
	NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP MAJOR ACTIVITY	Payroll for 1st quarter of 1977 before deductions (Mil. Thou. Dol.) Total annual payroll for 1977 before deductions (Mil. Thou. Dol.)	3 ☐ Closed (no new owner or operator), dismantled, or destroyed on → MO DAY YR 4 ☐ Idle or inactive (but still owned) → 5 ☐ Other – *Describe* →
Census use only	CENSUS FILE NO. TO IND TAB WT	CCS NID	
	EMPLOYER IDENTIFICATION NO. — Census use only: GEO, SC, TE	Employees (during pay period including March 12, 1977) (Number)	1 ☐ In operation 2 ☐ Sold or leased → MO DAY YR NAME OF PURCHASER OR LESSEE NUMBER AND STREET CITY STATE ZIP CODE
	NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP MAJOR ACTIVITY	Payroll for 1st quarter of 1977 before deductions (Mil. Thou. Dol.) Total annual payroll for 1977 before deductions (Mil. Thou. Dol.)	3 ☐ Closed (no new owner or operator), dismantled, or destroyed on → MO DAY YR 4 ☐ Idle or inactive (but still owned) → 5 ☐ Other – *Describe* →
Census use only	CENSUS FILE NO. TO IND TAB WT	CCS NID	

Page _____ of _____ pages

FORM NC-X1 (Item 5B) (4-27-77)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 ECONOMIC CENSUSES

REPORT OF ORGANIZATION

PLEASE ENTER YOUR CENSUS FILE NUMBER (See front page)

_____

Item 5B – YOUR LISTING OF ADDITIONAL ESTABLISHMENTS AND SUBSIDIARIES

- **Column (a)** – List separately any establishments of your company and its subsidiaries located in the U.S. or any of its territories which are not accounted for on other report forms in this mailing package.
- **Instructions for questions (e) and (f)** – Answer question (e) for acquired establishments. Complete question (f) entering the date the establishment opened. If not yet in operation, enter the expected opening date and the expected employment.
- **Column (b)** – Complete this column for each listed establishment.
- **Column (c)** – Mark (X) the box which best describes the activity of each establishment. *See box codes*
- **Column (d)** – Describe major activity or list principal products or services.
- **NOTE:** Additional copies of **Item 5B** are available upon request to Bureau of the Census, 1201 East Tenth Street, Jeffersonville, Indiana 47132. If you prefer, you may use your own paper to list additional establishments; in such instances, however, please **follow the same format** as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.

DESCRIPTION AND CODES FOR COLUMN (c)

1 – Agricultural production
2 – Agricultural services
3 – Mining
4 – Construction
5 – Merchant wholesalers
6 – Commission agent/broker
7 – Communications
8 – Manufacturers' sales branches, manufacturers' sales offices
9 – Manufacturing
10 – Retail
11 – Retail concessions/departments in retail stores
12 – Transportation and public utilities
13 – Finance, insurance, or real estate
14 – Services
15 – Medical, legal, or educational
16 – Auxiliary establishments primarily providing service to your own or affiliated company rather than customers or clients such as storage warehouses and research laboratories
17 – Central Administrative Office: accounting, purchasing, legal activities for your own company
18 – Other – *Specify major activity in column (d) below*

Line No.	Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of physical location (including ZIP code) (a)	1977 establishment data *Report number of employees and payroll for each establishment (including part-year operations)* (b)	Kind of business activity in 1977: Major activity *Mark (X) one box from the above descriptions* (c)	Kind of business activity in 1977: Description of major activity or principal products or services (d)
	EMPLOYER IDENTIFICATION NUMBER ___ — ____ NAME / STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY / STATE / ZIP CODE (e) Was this establishment acquired from another company? ☐ YES ☐ NO — DATE ACQUIRED MONTH DAY YEAR NAME AND ADDRESS OF FORMER OWNER OR OPERATOR (f) Date establishment opened or is expected to open and expected employment. MONTH DAY YEAR EXPECTED EMPLOYMENT	Employees (during pay period including March 12, 1977) (Number) Payroll for 1st quarter of 1977 before deductions Mil. Thou. Dol. Total annual payroll for 1977 before deductions Census use only: CENSUS FILE NO. SC TO IND FORM; TAB WT CCS OID	1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐	
	EMPLOYER IDENTIFICATION NUMBER ___ — ____ NAME / STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY / STATE / ZIP CODE (e) Was this establishment acquired from another company? ☐ YES ☐ NO — DATE ACQUIRED MONTH DAY YEAR NAME AND ADDRESS OF FORMER OWNER OR OPERATOR (f) Date establishment opened or is expected to open and expected employment. MONTH DAY YEAR EXPECTED EMPLOYMENT	Employees (during pay period including March 12, 1977) (Number) Payroll for 1st quarter of 1977 before deductions Mil. Thou. Dol. Total annual payroll for 1977 before deductions Census use only: CENSUS FILE NO. SC TO IND FORM; TAB WT CCS OID	1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐	
	EMPLOYER IDENTIFICATION NUMBER ___ — ____ NAME / STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY / STATE / ZIP CODE (e) Was this establishment acquired from another company? ☐ YES ☐ NO — DATE ACQUIRED MONTH DAY YEAR NAME AND ADDRESS OF FORMER OWNER OR OPERATOR (f) Date establishment opened or is expected to open and expected employment. MONTH DAY YEAR EXPECTED EMPLOYMENT	Employees (during pay period including March 12, 1977) (Number) Payroll for 1st quarter of 1977 before deductions Mil. Thou. Dol. Total annual payroll for 1977 before deductions Census use only: CENSUS FILE NO. SC TO IND FORM; TAB WT CCS OID	1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐	
	EMPLOYER IDENTIFICATION NUMBER ___ — ____ NAME / STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY / STATE / ZIP CODE (e) Was this establishment acquired from another company? ☐ YES ☐ NO — DATE ACQUIRED MONTH DAY YEAR NAME AND ADDRESS OF FORMER OWNER OR OPERATOR (f) Date establishment opened or is expected to open and expected employment. MONTH DAY YEAR EXPECTED EMPLOYMENT	Employees (during pay period including March 12, 1977) (Number) Payroll for 1st quarter of 1977 before deductions Mil. Thou. Dol. Total annual payroll for 1977 before deductions Census use only: CENSUS FILE NO. SC TO IND FORM; TAB WT CCS OID	1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐	

DUE DATE: 7 Days after Receipt

Form Approved: O.M.B. No. 41-S77010

FORM NC-X2 U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

1977 ECONOMIC CENSUSES

LISTING OF ADDITIONAL ESTABLISHMENTS

NOTICE – Response to this inquiry is **required by law (title 13, U.S. Code).** By the same law, your report to the Census Bureau is **confidential.** It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are **immune from legal process.**

In correspondence pertaining to this report, please refer to this Census File Number

Employer Identification Number

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47132

NOTE – Additional copies of this form are available upon request. If you prefer, list additional establishments on your own paper. BE SURE TO ENTER THE CENSUS FILE NUMBER in the upper right-hand corner of each additional sheet.

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Census use only	Unit No.	Item code	Unit No.	Item code	Unit No.	Item code	ACT	CCS	DOC

Item 1 – Does your organization or any of its subsidiaries have any establishments located in the United States or any of its territories which are not accounted for on other report forms in this mailing package?

☐ YES – *Go to item 2*
☐ NO – *Complete CERTIFICATION on reverse side and return report*

Item 2 – LISTING OF ADDITIONAL ESTABLISHMENTS

INSTRUCTIONS

Column (a) – Complete this column for each establishment that you list.

Column (b) – Mark (X) the box which best describes the principal activity of each establishment using the following code box descriptions:

1 – Agricultural production
2 – Agricultural services
3 – Mining
4 – Construction
5 – Merchant wholesaler
6 –Commission agent/broker
7 – Communications
8 – Manufacturers' sales branch/office
9 – Manufacturing
10 – Retail
11 – Retail concessions/departments in retail stores
12 – Transportation and public utilities
13 – Finance, insurance, or real estate
14 – Services
15 – Medical, legal, or educational
16 – Auxiliary establishments such as storage warehouses and research laboratories primarily providing service to your own or affiliated company rather than customers or clients
17 – Central administrative office, accounting, purchasing, legal activities for your own company
18 – Other – *Specify in column (c) below*

Column (c) – List in order of importance the principal products mined or made; kinds of wholesale or retail business; types of services provided; kinds of construction work done; or the types of crops grown or animals raised, etc.

Column (d) – Complete as indicated.

NOTE – Please return this report form whether or not you report additional establishments.

Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of **physical** location (including ZIP code) (a)	Principal activity *Mark (X) one box from the above descriptions* (b)	Description of products, business, services, etc. *List in order of importance* (c)	Operating status (d)
EMPLOYER IDENTIFICATION NUMBER – ; NAME; STORE OR PLANT NO.; NUMBER AND STREET OF PHYSICAL LOCATION; CITY; STATE; ZIP CODE; Census use only: CENSUS FILE NO.; SC; TO; IND; FORM; TAB; WT; CCS; OID	1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐	GEO	Date establishment opened or is expected to open: MONTH; DAY; YEAR; APPROXIMATE EMPLOYMENT. Was this establishment acquired from another company? ☐ YES ☐ NO; DATE ACQUIRED: MONTH; DAY; YEAR. NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
EMPLOYER IDENTIFICATION NUMBER – ; NAME; STORE OR PLANT NO.; NUMBER AND STREET OF PHYSICAL LOCATION; CITY; STATE; ZIP CODE; Census use only: CENSUS FILE NO.; SC; TO; IND; FORM; TAB; WT; CCS; OID	1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐	GEO	Date establishment opened or is expected to open: MONTH; DAY; YEAR; APPROXIMATE EMPLOYMENT. Was this establishment acquired from another company? ☐ YES ☐ NO; DATE ACQUIRED: MONTH; DAY; YEAR. NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
EMPLOYER IDENTIFICATION NUMBER – ; NAME; STORE OR PLANT NO.; NUMBER AND STREET OF PHYSICAL LOCATION; CITY; STATE; ZIP CODE; Census use only: CENSUS FILE NO.; SC; TO; IND; FORM; TAB; WT; CCS; OID	1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐	GEO	Date establishment opened or is expected to open: MONTH; DAY; YEAR; APPROXIMATE EMPLOYMENT. Was this establishment acquired from another company? ☐ YES ☐ NO; DATE ACQUIRED: MONTH; DAY; YEAR. NAME AND ADDRESS OF FORMER OWNER OR OPERATOR

Continued on reverse side

Item 2 – LISTING OF ADDITIONAL ESTABLISHMENTS – Continued

Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of **physical** location (including ZIP code) (a)	Principal activity *Mark (X) one box from the above descriptions* (b)	Description of products business, services, etc. *List in order of importance* (c)	Operating status (d)
EMPLOYER IDENTIFICATION NUMBER –	1 ☐ 10 ☐ 2 ☐ 11 ☐ 3 ☐ 12 ☐ 4 ☐ 13 ☐ 5 ☐ 14 ☐ 6 ☐ 15 ☐ 7 ☐ 16 ☐ 8 ☐ 17 ☐ 9 ☐ 18 ☐		**Date establishment opened or is expected to open** MONTH | DAY | YEAR | APPROXIMATE EMPLOYMENT **Was this establishment acquired from another company?** ☐ YES ☐ NO → DATE ACQUIRED: MONTH | DAY | YEAR NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
NAME … STORE OR PLANT NO.			
NUMBER AND STREET OF PHYSICAL LOCATION			
CITY … STATE … ZIP CODE			
Census use only CENSUS FILE NO. | SC | TO | IND | FORM TAB | WT | CCS | OID		GEO	
EMPLOYER IDENTIFICATION NUMBER –	1 ☐ 10 ☐ 2 ☐ 11 ☐ 3 ☐ 12 ☐ 4 ☐ 13 ☐ 5 ☐ 14 ☐ 6 ☐ 15 ☐ 7 ☐ 16 ☐ 8 ☐ 17 ☐ 9 ☐ 18 ☐		**Date establishment opened or is expected to open** MONTH | DAY | YEAR | APPROXIMATE EMPLOYMENT **Was this establishment acquired from another company?** ☐ YES ☐ NO → DATE ACQUIRED: MONTH | DAY | YEAR NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
NAME … STORE OR PLANT NO.			
NUMBER AND STREET OF PHYSICAL LOCATION			
CITY … STATE … ZIP CODE			
Census use only CENSUS FILE NO. | SC | TO | IND | FORM TAB | WT | CCS | OID		GEO	
EMPLOYER IDENTIFICATION NUMBER –	1 ☐ 10 ☐ 2 ☐ 11 ☐ 3 ☐ 12 ☐ 4 ☐ 13 ☐ 5 ☐ 14 ☐ 6 ☐ 15 ☐ 7 ☐ 16 ☐ 8 ☐ 17 ☐ 9 ☐ 18 ☐		**Date establishment opened or is expected to open** MONTH | DAY | YEAR | APPROXIMATE EMPLOYMENT **Was this establishment acquired from another company?** ☐ YES ☐ NO → DATE ACQUIRED: MONTH | DAY | YEAR NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
NAME … STORE OR PLANT NO.			
NUMBER AND STREET OF PHYSICAL LOCATION			
CITY … STATE … ZIP CODE			
Census use only CENSUS FILE NO. | SC | TO | IND | FORM TAB | WT | CCS | OID		GEO	
EMPLOYER IDENTIFICATION NUMBER –	1 ☐ 10 ☐ 2 ☐ 11 ☐ 3 ☐ 12 ☐ 4 ☐ 13 ☐ 5 ☐ 14 ☐ 6 ☐ 15 ☐ 7 ☐ 16 ☐ 8 ☐ 17 ☐ 9 ☐ 18 ☐		**Date establishment opened or is expected to open** MONTH | DAY | YEAR | APPROXIMATE EMPLOYMENT **Was this establishment acquired from another company?** ☐ YES ☐ NO → DATE ACQUIRED: MONTH | DAY | YEAR NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
NAME … STORE OR PLANT NO.			
NUMBER AND STREET OF PHYSICAL LOCATION			
CITY … STATE … ZIP CODE			
Census use only CENSUS FILE NO. | SC | TO | IND | FORM TAB | WT | CCS | OID		GEO	
EMPLOYER IDENTIFICATION NUMBER –	1 ☐ 10 ☐ 2 ☐ 11 ☐ 3 ☐ 12 ☐ 4 ☐ 13 ☐ 5 ☐ 14 ☐ 6 ☐ 15 ☐ 7 ☐ 16 ☐ 8 ☐ 17 ☐ 9 ☐ 18 ☐		**Date establishment opened or is expected to open** MONTH | DAY | YEAR | APPROXIMATE EMPLOYMENT **Was this establishment acquired from another company?** ☐ YES ☐ NO → DATE ACQUIRED: MONTH | DAY | YEAR NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
NAME … STORE OR PLANT NO.			
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Census use only CENSUS FILE NO. | SC | TO | IND | FORM TAB | WT | CCS | OID		GEO	
EMPLOYER IDENTIFICATION NUMBER –	1 ☐ 10 ☐ 2 ☐ 11 ☐ 3 ☐ 12 ☐ 4 ☐ 13 ☐ 5 ☐ 14 ☐ 6 ☐ 15 ☐ 7 ☐ 16 ☐ 8 ☐ 17 ☐ 9 ☐ 18 ☐		**Date establishment opened or is expected to open** MONTH | DAY | YEAR | APPROXIMATE EMPLOYMENT **Was this establishment acquired from another company?** ☐ YES ☐ NO → DATE ACQUIRED: MONTH | DAY | YEAR NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
NAME … STORE OR PLANT NO.			
NUMBER AND STREET OF PHYSICAL LOCATION			
CITY … STATE … ZIP CODE			
Census use only CENSUS FILE NO. | SC | TO | IND | FORM TAB | WT | CCS | OID		GEO	

Item 3 CERTIFICATION

Name of person to contact regarding this report | Address (if different from label address) | Telephone: Area code \| Number \| Extension

This report *(including attached continuation pages)* is substantially accurate and has been prepared in accordance with instructions.

Signature of authorized person | Title | Date

FORM NC-X2

PENALTY FOR FAILURE TO REPORT
DUE DATE: FEBRUARY 15, 1978

O.M.B. No. 41-S77014; Approval Expires December 31, 1978

FORM NC-X3 (4-4-77)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 ECONOMIC CENSUSES

GENERAL SCHEDULE

NOTICE – Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report, please refer to this Census File Number

NC-X3

Employer Identification Number

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47132

Census use only	Unit No.	Item code	Unit No.	Item code	Unit No.	Item code

KEEP THIS COPY FOR YOUR FILES

PLEASE COMPLETE AND RETURN THE FORM WHICH SHOWS YOUR NAME AND ADDRESS

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Important—Please read

The data reported on this form should cover only the establishment shown on the address label. However, if more than one establishment (location) was operated under the same Employer Identification Number in 1977, consolidate data for all such locations in items 5 and 6. In item 1 enter the location of the MAIN establishment. In item 12c provide information separately for each location, INCLUDING the main establishment.

Item 1 – PHYSICAL LOCATION OF ESTABLISHMENT – In order to assign this establishment to the correct geographic area, the Bureau of the Census must know the actual location which may differ from the mailing address. *Complete items a through g.*

a. Address number and street name of physical location – *If not known, enter building name, shopping center name, or other physical location description. Do not enter P.O. box or rural route.*
Mark (X) for a, b, c, and d if same as mailing label; if different show corrections.
Same as mailing label ☐ OR ▶

b. Name of city, town, village, borough, etc. of physical location
Same as mailing label ☐ OR ▶

c. State
Same as mailing label ☐ OR ▶

d. ZIP code
Same as mailing label ☐ OR ▶

e. Type of municipality indicated in 1b – *Mark (X) one*
1 ☐ City 4 ☐ Borough 7 ☐ Other – *Specify* _____
2 ☐ Town 5 ☐ Township
3 ☐ Village 6 ☐ Unincorporated 8 ☐ Don't know

f. Is this establishment located inside the legal boundaries of the city, town, village, etc., indicated in 1b?
1 ☐ Yes
2 ☐ No
3 ☐ No legal boundaries
4 ☐ Don't know

NOTE – The area served by a post office generally does not coincide with the legal boundaries of the municipality from which the post office takes its name.

g. Name of county (Louisiana parish) of physical location

Item 2 – EMPLOYER IDENTIFICATION NUMBER
Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1977 Employer's Quarterly Federal Tax Return, Treasury Form 941?
☐ YES
☐ NO – *Enter current EI number* ▶ (9 digits) ☐☐–☐☐☐☐☐☐☐

Item 3 – OPERATIONAL STATUS
a. Mark (X) the **ONE** box which best describes this establishment at the end of 1977.
001
1 ☐ In operation
2 ☐ Temporarily or seasonally inactive
3 ☐ Ceased operation – *Give date* ▶
4 ☐ Sold or leased to another operator – *Give date AND name, etc.* ▶

Figures only

Month	Day	Year

Name of new owner or operator

Number and street

City | State | ZIP code

b. How many months during 1977 did your firm or organization actively operate this establishment?

Number of months
002

Item 4 – ORGANIZATIONAL STATUS
a. Mark (X) the **ONE** box which best describes this establishment during 1977.
003
1 ☐ Individual proprietorship
2 ☐ Partnership
8 ☐ Cooperative association
5 ☐ Governmental – *Specify* _____
0 ☐ Corporation (other than specified above)
9 ☐ Other – *Specify* _____

b. Was all or part of the income of this establishment or organization exempt from Federal income taxes under Section 501 or 521 of the Internal Revenue Code?
004
1 ☐ YES
2 ☐ NO

Important—Please read

Dollar figures should be reported as illustrated. Please be careful to enter the figures in the **correct columns**. See example below:

EXAMPLE: If figure is $1,125,628.28 ▶
• PREFERRED method. . . . . 1 | 125 |
Acceptable method . . . . . 1 | 125 | 628

Item 5 – DOLLAR VOLUME

	Mil.	Thou.	Dol.
a. Sales of merchandise and other operating receipts or total revenue in 1977 **EXCLUDING** sales (or other) taxes collected	010		
b. Were sales (or other) taxes collected from customers and forwarded to taxing authorities? 011 1 ☐ YES 2 ☐ NO			
If "YES," report the amount of such taxes (*DO NOT include taxes in 5a above*)	012		
c. **TOTAL DOLLAR VOLUME** including sales (or other) taxes (Sum of 5a and 5b above) ▶	013		
d. Expenses in 1977	040		

Item 6 – PAYROLL AND EMPLOYMENT

	Mil.	Thou.	Dol.
a. Payroll			
(1) Total **ANNUAL** payroll in 1977 before deductions	030		
(2) Payroll for the **FIRST QUARTER** of 1977	031		

b. **Employment** – Number of paid employees for the pay period including the 12th of the month (Include both full- and part-time employees)

032 MAR	033 MAY	034 AUG	035 NOV

Item 7 – SOURCE OF SALES, RECEIPTS, OR REVENUE – List below the principal lines of merchandise sold, kinds of construction work done, products produced, or services provided and indicate the approximate percentage each was of the total receipts or revenue in 1977.

Source	Percentage of receipts or revenue	Source	Percentage of receipts or revenue
	%		%
	%		%
	%		%
	%		%

Make sure all items on this page have been completed and continue to **NEXT PAGE**

Item 8 – BUSINESS OR ACTIVITY – Mark (X) the **ONE** box which best describes the **principal** activity during the past year. 070

Census use only

- ☐ **AGRICULTURAL PRODUCTION**
- ☐ **MINERALS EXTRACTION OR ORE PROCESSING**
- ☐ **MANUFACTURING**
- ☐ **MOTOR CARRIER (ICC REGULATED)**
- ☐ **MOTOR CARRIER (EXCEPT ICC REGULATED)**
- **CONSTRUCTION**
  - ☐ Building construction – General contractor
  - ☐ Other construction – General contractor
  - ☐ Special trade contractor (electricians, carpenters, painters, etc.)
  - ☐ Land developer and subdivider
  - ☐ Real estate – *Specify activity* _____
- **WHOLESALE TRADE**
  - ☐ Merchant wholesaler
  - ☐ Agent or broker
  - ☐ Other type of wholesaler – *Specify* _____
- **RETAIL TRADE**
  - ☐ Selling at this establishment
  - ☐ Mail order (catalog selling)
  - ☐ House-to-house (direct selling)
  - ☐ Operating merchandise vending machines
  - ☐ Other type of retailer – *Specify* _____
  - ☐ **Other – *Specify activity*** _____

Item 9 – If "Manufacturing" is marked in item 8, list the primary materials consumed in producing the manufactured products.

Item 10 – CLASS OF CUSTOMER

To whom do you sell most of your products or provide your services?

- ☐ Retail or wholesale establishments
- ☐ Construction contractors
- ☐ General public (household consumers and individuals)
- ☐ Institutional, industrial, commercial, professional, government, and farm users
- ☐ Other – *Specify* _____

Item 11 – OWNERSHIP OR CONTROL

Enter the company name and address (street name and number, city, State, ZIP code) and EI Number. If more space is needed to list companies, attach a separate sheet.

a. Is this company owned or controlled by another company? 1 ☐ YES → 2 ☐ NO

Owning or controlling company

EI No. *(9 digits)* ☐☐–☐☐☐☐☐☐☐

b. Does this company own or control any other company or companies? 1 ☐ YES → 2 ☐ NO

Owned or controlled company

EI No. *(9 digits)* ☐☐–☐☐☐☐☐☐☐

Item 12 – LOCATIONS OF OPERATION

a. **Were the operations under the EI Number shown in the mailing label (or as corrected in item 2) conducted at more than one location during 1977?** (Including all selling or service locations and any other facilities such as warehouses, administrative offices, etc.)

1 ☐ YES – *Answer (b) and (c)*
2 ☐ NO – *SKIP to item 13*

b. **At how many separate locations were these operations conducted during 1977?** — Number of locations

c. List each location – including main location. If more space is needed, attach a separate sheet providing the same information required below.

Census use only	Physical location of each operation *Name, address and ZIP code* (a)			1977 sales and receipts and annual and 1st quarter payrolls *Totals should equal items 5a and 6a(1) and (2)* (b)	Mil.	Thou.	Dol.	Number of paid employees for the pay period including the 12th of each month *Totals should equal corresponding entries in item 6b* (c)		Primary kind of business or activity of each location *Describe* (d)
080	Name			Sales and receipts	081			084 MAR	085 MAY	
	Number and street of physical location			Total annual payroll	082			086 AUG	087 NOV	
	City	State	ZIP code	1st quarter payroll	083					088 Census use only
080	Name			Sales and receipts	081			084 MAR	085 MAY	
	Number and street of physical location			Total annual payroll	082			086 AUG	087 NOV	
	City	State	ZIP code	1st quarter payroll	083					088 Census use only
080	Name			Sales and receipts	081			084 MAR	085 MAY	
	Number and street of physical location			Total annual payroll	082			086 AUG	087 NOV	
	City	State	ZIP code	1st quarter payroll	083					088 Census use only
080	Name			Sales and receipts	081			084 MAR	085 MAY	
	Number and street of physical location			Total annual payroll	082			086 AUG	087 NOV	
	City	State	ZIP code	1st quarter payroll	083					088 Census use only
080	Name			Sales and receipts	081			084 MAR	085 MAY	
	Number and street of physical location			Total annual payroll	082			086 AUG	087 NOV	
	City	State	ZIP code	1st quarter payroll	083					088 Census use only
	TOTALS (Sum of entries should equal corresponding entries in items 5a and 6 on page 1)			Sales and receipts				MAR	MAY	
				Total annual payroll				AUG	NOV	
				1st quarter payroll						

Item 13 – CERTIFICATION

Name of person to contact regarding this report	Telephone: Area code	Number	Extension
Address – *Number and street*			
City	State	ZIP code	

This report is substantially accurate and has been prepared in accordance with instructions.

Period covered → From: Mo. Day Year To: Mo. Day Year

Signature of authorized person

Title Date

FORM NC-X3 (4-4-77)

PENALTY FOR FAILURE TO REPORT
DUE DATE: FEBRUARY 15, 1978

Form Approved: O.M.B. No. 41-S77017

FORM NC-X6 (0600) — U.S. DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS

1977 ECONOMIC CENSUSES

CENTRAL ADMINISTRATIVE OFFICE OR AUXILIARY ESTABLISHMENT

Important – PLEASE READ ALL ACCOMPANYING INSTRUCTIONS

NOTICE – Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report, please refer to this Census File Number: NC-X6 (0600)

Employer Identification Number

Please complete this form and RETURN TO: BUREAU OF THE CENSUS, 1201 East Tenth Street, Jeffersonville, Indiana 47132

Census use only

Unit No.	Item code	Unit No.	Item code	Unit No.	Item code

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Item 1 – PHYSICAL LOCATION OF ESTABLISHMENT – In order to assign this establishment to the correct geographic area, the Bureau of the Census must know the actual location which may differ from the mailing address. *Complete items a through g.*

a. Address number and street name of physical location – *If not known, enter building name, shopping center name, or other physical location description. Do not enter P.O. box or rural route.*
Mark (X) for a, b, c, and d if same as mailing label; if different show corrections.
Same as mailing label [ ] OR ▶

b. Name of city, town, village, borough, etc., of physical location
Same as mailing label [ ] OR ▶

c. State
Same as mailing label [ ] OR ▶

d. ZIP code
Same as mailing label [ ] OR ▶

e. Type of municipality indicated in 1b (*Mark (X) one*): 1 [ ] City; 2 [ ] Town; 3 [ ] Village; 4 [ ] Borough; 5 [ ] Township; 6 [ ] Unincorporated; 7 [ ] Other – *Specify* _____; 8 [ ] Don't know

f. Is this establishment located inside the legal boundaries of the city, town, village, etc., indicated in 1b? 1 [ ] Yes; 2 [ ] No; 3 [ ] No legal boundaries; 4 [ ] Don't know

NOTE – The area served by a post office generally does not coincide with the legal boundaries of the municipality from which the post office takes its name.

g. Name of county (Louisiana parish) of physical location

Item 2 – EMPLOYER IDENTIFICATION NUMBER

Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1977 Employer's Quarterly Federal Tax Return, Treasury Form 941?

[ ] YES

[ ] NO – *Enter current EI number* ⟶ [ ][ ] – [ ][ ][ ][ ][ ][ ][ ] *(9 digits)*

Item 3 – OPERATIONAL STATUS

a. Mark (X) the ONE box which best describes this establishment at the end of 1977. *Figures only*

001 1 [ ] In operation
2 [ ] Temporarily or seasonally inactive
3 [ ] Ceased operation – *Give date* ⟶ (Month | Day | Year)
4 [ ] Sold or leased to another operator – *Give date AND name, etc.* ⟶

Name of new owner or operator
Number and street
City | State | ZIP code

b. How many months during 1977 did your firm or organization actively operate this establishment? 002 Number of months

Item 4 – ORGANIZATIONAL STATUS

a. Mark (X) the ONE box which best describes this establishment during 1977.

003 1 [ ] Individual proprietorship
2 [ ] Partnership
8 [ ] Cooperative association
5 [ ] Governmental – *Specify* _____
0 [ ] Corporation (other than specified above)
9 [ ] Other – *Specify* _____

b. Was all or part of the income of this establishment or organization exempt from Federal income taxes under Section 501 or 521 of the Internal Revenue Code? 004 1 [ ] YES; 2 [ ] NO

Item 5 – PRINCIPAL ACTIVITIES OF YOUR COMPANY SERVICED BY THIS ESTABLISHMENT IN 1977

a. Does this establishment perform management, general administrative functions, or other supporting services PRIMARILY for establishments of this company (rather than for other business firms or for the general public)? ("Company" refers to the parent firm and all its subsidiaries under common ownership or control.) 050 1 [ ] YES – *Complete items 5b, c, and d*; 2 [ ] NO – *SKIP to item 6*

b. Does this establishment perform these management administrative functions or services for more than one establishment of this company? 051 1 [ ] YES; 2 [ ] NO

c. Mark (X) the principal kind of business or industrial activity of the establishments of this company that are managed or serviced by this central office or auxiliary.

052 1 Manufacturing; 2 Construction; 3 Mining and mineral industries; 4 Manufacturer sales branches or other wholesale operations; 5 Retail stores; 6 Other – *Describe* _____

d. List in order of importance, the principal products made, kinds of retail or wholesale business operated, types of services rendered, or construction activities performed by the establishments that are managed or serviced by this central office or auxiliary.

(1)
(2)

Important – Please read

Dollar figures should be reported as illustrated. Please be careful to enter the figures in the correct columns. See example below:

EXAMPLE: If figure is $1,125,628.28 ⟶

	Millions (000)	Thousands (000)	Dollars (000)
• PREFERRED method	1	125	
Acceptable method	1	125	628

Item 6 – EMPLOYMENT

a. Employment by function for pay period including March 12

	Number
(1) Centralized administration	060
(2) Research, development, and testing	061
(3) Warehousing	062
(4) Electronic data processing	063
(5) Sales to customers directly from this location	064
(6) Trading stamp redemption	065
(7) Other – *Specify*	066
(8) TOTAL employment (Sum of lines (1) through (7)) ⟶	067

b. Total employment for pay period including the 12th of the following months –

(1) May	068
(2) August	069
(3) November	070

Item 7 – PAYROLL

	Mil.	Thou.	Dol.
a. TOTAL FIRST QUARTER payroll before deductions ⟶ (071)			
b. TOTAL ANNUAL PAYROLL before deductions ⟶ (072)			
c. Of the total annual payroll reported in item 7b above, how much was for delivery personnel (including drivers, driver salesmen, etc.), who are engaged in transporting the merchandise of this company, and who are employed at this establishment? ⟶ (073)			

Item 8 – EMPLOYER COSTS FOR FRINGE BENEFITS

a. Required by law (080)			
b. Other fringe benefits (081)			
c. TOTAL fringe benefits (Sum of lines a and b) ⟶ (082)			

Please continue on page 2 ⟶

Item 9 – BILLINGS TO RETAIL STORES OF THIS COMPANY

a. Did this establishment have billings to retail stores of this company during 1977? 090 — 1 YES – *Go to b*; 2 NO – *SKIP to item 10*

	Mil.	Thou.	Dol.
b. Total billings by this establishment in 1977 to retail stores of this company. 091			

EXAMPLE FOR REPORTING PERCENTS — If figure is **38.76%** of total sales:

	Whole percent
• Report whole percents →	39%
Not acceptable →	38.76%

Item 10 – SALES TO CUSTOMERS OUTSIDE THIS COMPANY

a. Did this establishment have sales to customers outside this company during 1977? 100 — 1 YES – *Go to b*; 2 NO – *SKIP to item 11*

	Mil.	Thou.	Dol.
b. (1) Sales and other operating receipts (exclude sales or other taxes collected) 101			
(2) Were sales (or other) taxes collected from customers and forwarded to taxing authorities? 102 — 1 YES; 2 NO			
If "YES," report amount of taxes *(DO NOT include in 10b(1))* 103			
(3) TOTAL sales and other operating receipts (including sales or other taxes collected) (Sum of lines (1) and (2)) 104			

c. Of the value of sales and other operating receipts reported in item 10b(1), report the approximate percentage of these receipts to –	Whole percent
(1) General public (households, consumers and individuals) 105	%
(2) Other, include retailers; wholesalers; institutional, industrial, commercial, professional, and farm users (for use in farm production); and government 106	%

d. List the **principal** products sold or services rendered by this establishment to customers outside this company, and their approximate percent of 1977 sales and receipts as reported in item 10b(1) above.

Principal products sold or services rendered	Percent of sales and receipts in 1977
(1)	%
(2)	%

Item 11 – CAPITAL EXPENDITURES (EXCLUDE LAND AND MINERAL RIGHTS)

a. Did this establishment make capital expenditures during 1977? 110 — 1 YES – *Go to b*; 2 NO – *SKIP to item 12*

b. Type of capital expenditures	Mil.	Thou.	Dol.
(1) New structures and additions to plant 111			
(2) New automobiles, trucks, trailers, etc., for highway use 112			
(3) New computers and peripheral data processing equipment 113			
(4) All other expenditures for new machinery and equipment 114			
(5) Used plant and used equipment acquired from others 115			
(6) TOTAL capital expenditures (Sum of lines (1) through (5)) 116			

Item 12 – GROSS VALUE OF DEPRECIABLE ASSETS (EXCLUDE LAND)

a. Did this establishment maintain depreciable assets during 1977? 120 — 1 YES – *Go to b*; 2 NO – *SKIP to item 13*

b. Gross value of depreciable assets, end of 1976	Mil.	Thou.	Dol.
(1) Buildings and structures 121			
(2) Machinery and equipment 122			
(3) TOTAL (Sum of lines (1) and (2)) 123			
c. Gross value of depreciable assets, end of 1977 124			
(1) Buildings and structures 125			
(2) Machinery and equipment 126			
(3) TOTAL (Sum of lines (1) and (2))			

Item 13 – DEPRECIATION CHARGES

a. Did this establishment maintain depreciation accounts during 1977? 130 — 1 YES – *Go to b*; 2 NO – *SKIP to item 14*

	Mil.	Thou.	Dol.
b. TOTAL depreciation charges against assets during 1977 131			

Item 14 – SELECTED OPERATING EXPENSES 140

(1) Cost of purchased electricity 141			
(2) Cost of fuels consumed 142			
(3) Cost of purchased communication services 143			
(4) Cost of purchased repair services for buildings and structures 144			
(5) Cost of purchased repair services for machinery and equipment			

Item 15 – RENTAL PAYMENTS (EXCLUDE LAND)

a. Did this establishment make rental payments during 1977? 150 — 1 YES – *Go to b*; 2 NO – *SKIP to item 16*

b. Rental payments made for this establishment	Mil.	Thou.	Dol.
(1) For use of buildings and structures 151			
(2) For use of machinery and equipment 152			
(3) TOTAL rental payments (Sum of lines (1) and (2)) 153			

Item 16 – COST OF RESEARCH AND DEVELOPMENT

a. Did this establishment perform research and development during 1977? 160 — 1 YES – *Go to b*; 2 NO – *SKIP to item 17*

b. Type of research and development performed	Mil.	Thou.	Dol.
(1) Federal contracts and subcontracts 161			
(2) With own funds and nonfederal sources 162			
(3) TOTAL cost of research and development (Sum of lines (1) and (2)) 163			

Item 17 – INVENTORIES AND METHOD OF VALUATION

a. Did this establishment have inventories during 1977? 170 — 1 YES – *Go to b*; 2 NO – *SKIP to item 18*

b. Value of inventories of this establishment	Mil.	Thou.	Dol.
(1) End of 1976 171			
(2) End of 1977 172			

c. If the dollar value of inventories at the end of 1977 exceeds $25(000), report the method of valuation below –	Inventories end of 1977 — Whole percent
(1) Cost	
(a) First-in, First-out (FIFO) 180	%
(b) Last-in, First-out (LIFO) 181	%
(c) Average cost 182	%
(d) Specific or actual cost 183	%
(e) Standard cost 184	%
(f) Other – *Specify* 185	%
(2) Market 186	
(a) Market used because lower than cost	%
(b) Market always used 187	%
(3) Other – *Specify* 188	%
(4) TOTAL (Sum of lines (1) through (3))	100%

Item 18 – CONSISTENCY CHECK

a. Were any of the above data (items 6–17) also reported in any other 1977 Census establishment report form of this company, i.e., in the Census Forms MA-, MC-, CB-, or CC- series? 190 — 1 YES – *Go to b*; 2 NO – *SKIP to item 19*

b. Please give the 10-digit CENSUS FILE NUMBER of that report 191 CFN

Remarks *This space may be used for any explanation that may be essential in understanding your reported data.*

Item 19 – CERTIFICATION

Name of person to contact regarding this report	Telephone: Area code	Number	Extension
Address – *Number and street*			
City	State	ZIP code	

This report is substantially accurate and has been prepared in accordance with instructions.

Period covered → From: Mo. Day Year To: Mo. Day Year

Signature of authorized person

Title Date

PENALTY FOR FAILURE TO REPORT — DUE DATE: FEBRUARY 15, 1978 — Form Approved: O.M.B. No. 41-S77009

FORM NC-K1 (6-25-77)

NOTICE – Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

In correspondence pertaining to this report please refer to this Census File Number:

NC-K1 (9991)

1977 ECONOMIC CENSUSES

ENTERPRISE REPORT

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Please complete this form and RETURN TO: BUREAU OF THE CENSUS, 1201 East Tenth Street, Jeffersonville, Indiana 47132

If filing by due date causes a burden, a request for an extention of time should be sent to the above address.

CENSUS USE ONLY

Unit No.	Item code	Unit No.	Item code	Unit No.	Item code

Important *– Please read instructions before completing report*

Report the following items on a consolidated basis for the domestic activities of your enterprise. An enterprise is a business organization (i.e., company, service organization, membership organization, association, etc.) consisting of one or more establishments under common ownership or control. Furthermore, if an enterprise owns or controls other entities, all establishments of its subsidiaries are to be included as part of the owning or controlling enterprise. For purposes of this report, "domestic" activities include all 50 States and the District of Columbia. Do not include foreign activities, if any, except for reporting foreign assets in item 9. Consolidate all domestic activities, whether or not covered in the 1977 Economic Censuses by individual report forms.

If book records are not available, enter your best estimate. **Before completing these items, please read the detailed instructions.**

Item 1 – CERTIFICATION

Name of person to contact regarding this report	Telephone: Area code	Number	Extension

Address – *Number and street*

City | State | ZIP code

This report is substantially accurate and has been prepared in accordance with instructions.

Period covered → From: Mo. 010 Day 011 Year 012 — To: Mo. 013 Day 014 Year 015

Signature of authorized person

Title | Date

Important - Please read

Dollar figures should be reported as illustrated. Please be careful to enter your figures in the correct columns. See example below:

EXAMPLE: If figure is $1,125,628.28 → • PREFERRED method ..... Mil. 1, Thou. 126, Dol. | Acceptable method ..... Mil. 1, Thou. 125, Dol. 628

Item 2 – TOTAL EMPLOYMENT

Number of paid employees for the pay period including March 12, 1977 — Number of employees 020

Item 3 – TOTAL PAYROLL

		Mil.	Thou.	Dol.
		000	000	000
a. Payroll for the **FIRST QUARTER** of 1977, before deductions	030			
b. **TOTAL ANNUAL** payroll in 1977, before deductions	031			

Item 4 – EMPLOYER COSTS FOR FRINGE BENEFITS

a. Required by law	040			
b. Other fringe benefits	041			
c. Total fringe benefits *(Sum of lines a and b)*	042			

Item 5 – SALES AND RECEIPTS

a. Sales and other operating receipts (exclude sales or other taxes collected)	050			
b. Were sales (or other) taxes collected from customers and forwarded to taxing authorities?	051	1 ☐ YES 2 ☐ NO		
If "Yes," report amount of taxes. *Do not include in 5a.*	052			
c. TOTAL sales and other operating receipts (including sales or other taxes collected) *(Sum of lines a and b)*	053			

PLEASE CONTINUE ON REVERSE SIDE

Item 6 – CAPITAL EXPENDITURES (Exclude land and mineral rights)		Millions	Thousands	Dollars
		000	000	000
a. New structures and additions to plant	060			
b. New automobiles, trucks, trailers, etc., for highway use	061			
c. New computers and peripheral data processing equipment	062			
d. All other expenditures for new machinery and equipment	063			
e. Used plant and used equipment acquired from others	064			
f. Capitalized development and exploration of mineral properties	065			
g. Total capital expenditures *(Sum of lines a through f)*	066			

Item 7 – GROSS VALUE OF DEPRECIABLE ASSETS				
a. Gross depreciable assets, end of 1976				
(1) For machinery and equipment	070			
(2) For buildings and structures	071			
(3) Total *(Sum of lines (1) and (2))*	072			
b. Total capital expenditures during 1977 (should equal line 6g)	073			
c. Other acquisitions by your company during 1977	074			
d. Deductions from depreciable assets during 1977	075			
e. Gross depreciable assets, end of 1977				
(1) For machinery and equipment	076			
(2) For buildings and structures	077			
(3) Total *(Sum of lines (1) and (2))*	078			

Item 8 – CHANGES IN DEPRECIATION RESERVES				
a. Accumulated depreciation as of end of 1976	080			
b. Depreciation charged against assets during 1977	081			
c. Additions charged to other accounts during 1977	082			
d. Deductions from reserves for retirements, renewals, and replacements during 1977	083			
e. Accumulated depreciation as of end of 1977 *(Sum of lines a through c minus line d)*	084			

Item 9 – TOTAL ASSETS, AS OF END OF 1977				
a. Net value of depreciable assets (should equal line 7e(3) minus line 8e)	090			
b. All other domestic assets, including inventories	091			
c. Net foreign assets	092			
d. Total assets, as of end of 1977 *(Sum of lines a through c)*	093			

Item 10 – INVENTORIES AND METHOD OF VALUATION		Millions	Thousands	Dollars
		000	000	000
a. All inventories, as of end of 1976	100			
b. All inventories, as of end of 1977	101			

c. METHOD OF INVENTORY VALUATION

EXAMPLE FOR REPORTING PERCENTS	If figure is 38.76% of total receipts:	Percent
	Report whole percents →	39%
	Not acceptable →	38.76%

Method of inventory		Whole percents	
		End of 1977	End of 1976
(1) Cost	(a) First-in, First-out (FIFO)	102	114
	(b) Last-in, First-out (LIFO)	103	115
	(c) Average cost	104	116
	(d) Specific or actual cost	105	117
	(e) Standard cost	106	118
	(f) Other – *Specify*	107	119
(2) Market	(a) Market used because lower than cost	108	120
	(b) Market always used	109	121
(3) Retail method	(a) Approximating lower of cost or market	110	122
	(b) Approximating cost	111	123
	(c) LIFO retail	112	124
(4) Other – *Specify*		113	125
(5) TOTAL		100%	100%

Item 11 – SELECTED OPERATING EXPENSES			Millions	Thousands	Dollars
			000	000	000
a. Did this enterprise make royalty payments for the use of intangible property rights during 1977?	126	1 ☐ YES – *Report value of payments* → 2 ☐ NO – *GO to b*	127		
b. Did this enterprise purchase advertising services during 1977?	128	1 ☐ YES – *Report cost of purchased services* → 2 ☐ NO – *GO to c*	129		
c. Did this enterprise make rental payments during during 1977?	130	1 ☐ YES – *GO to d* 2 ☐ NO – *SKIP to Item 12*			
d. Rental payments, excluding land			131		
(1) For use of buildings and structures			132		
(2) For machinery and equipment			133		
(3) Total rental payments *(Sum of lines (1) and (2))*					

Item 12 – CONSISTENCY CHECK		
Is the gross value of depreciable assets at the end of the year minus total capital expenditures during the year within 5% of the gross value of depreciable assets at the beginning of the year?	140	1 ☐ YES 2 ☐ NO – *Explain in Remarks*

REMARKS – *Please use this space for any explanation that may be essential in understanding your reported data.*

FORM NC-K1 (5-28-77)

PENALTY FOR FAILURE TO REPORT **DUE DATE: FEBRUARY 15, 1978** Form Approved: O.M.B. No. 41-S77035

FORM MC-36B (Rev.) U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

1977 CENSUS OF MANUFACTURES

SWITCHGEAR AND SWITCHBOARD APPARATUS AND INDUSTRIAL CONTROLS

Please complete this form and RETURN TO → **BUREAU OF THE CENSUS, 1201 East Tenth Street, Jeffersonville, Indiana 47132**

NOTICE – Response to this inquiry is **required by law (title 13, U.S. Code).** By the same law, your report to the Census Bureau is **confidential.** It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are **immune from legal process.**

In correspondence pertaining to this report, please refer to this Census File Number ↓ **Employer Identification Number** ↓

Please read ...

A separate census report must be filed for each manufacturing establishment which your company operated in 1977. A manufacturing establishment is defined as a single physical location where products are manufactured, processed, or assembled.

Please read the instructions for each item before completing it. If book figures are not available, carefully prepared estimates are acceptable.

If filing by due date causes an undue burden, a time extension request should be sent to the above address. Please enter your 11-digit Census File Number on each page of this report and on any correspondence with us regarding this report.

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

110 | | | | | | | | | | 111 | | | | | | | |

ITEM 1A Physical location of establishment

In order to assign this establishment to the correct geographic area, the Bureau of the Census must know the actual location **which may differ from the mailing address.** *Complete items a through g.*

a. Address number and street name of physical location – *If not known, enter building name, shopping center name, or other physical location description. Do not enter P.O. box or rural route.* **Mark (X) for a, b, c, and d if same as mailing label; if different enter corrections.** Same as mailing label ☐ OR ▶

b. Name of city, town, village, borough, etc. of physical location. Same as mailing label ☐ OR ▶

c. State. Same as mailing label ☐ OR ▶

d. ZIP code. Same as mailing label ☐ OR ▶

e. Type of municipality indicated in 1Ab: 1 ☐ City 2 ☐ Town 3 ☐ Village 4 ☐ Borough 5 ☐ Township 6 ☐ Unincorporated 7 ☐ Other – *Specify* 8 ☐ Don't know

f. **Is this establishment located inside the legal boundaries of the city, town, village, etc., indicated in 1Ab?** 1 ☐ Yes 2 ☐ No 3 ☐ No legal boundaries 4 ☐ Don't know

NOTE – The area served by a post office generally does not coincide with the legal boundaries of the municipality from which it takes its name.

g. Name of county (Louisiana parish) of physical location

ITEM 1B Employer identification number(s)

Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1977 Employer's Quarterly Federal Tax Return, Treasury Form 941? 108 ☐ YES ☐ NO – *Enter current EI number* → (9-digits) – | | | | | | | | | |

ITEM 1C Organizational status

Mark (X) the **ONE** box which best describes this establishment during 1977 109 1 ☐ Individual proprietorship 2 ☐ Partnership 0 ☐ Corporation (Do not mark if any form of cooperative association) 8 ☐ Cooperative association, corporate or non-corporate 9 ☐ Other – *Specify*

Important—Please read

Dollars, hours worked, and kilowatt-hour figures should be reported in thousands. If you wish, you may report to the nearest unit. Please be careful to enter your figures in the **correct columns.**

EXAMPLE: If figure is $1,125,628.28 →

	Millions	Thousands	Dollars
• PREFERRED method	000	000	000
Acceptable method	1	126	
	1	125	628

REFER TO SPECIAL INSTRUCTIONS ON REVERSE SIDE FOR ITEMS 2–8

• *Complete each item and enter "0" when appropriate.*

ITEM 2 Number of employees

	Key	Number
Number of production workers during pay period including the 12th of month: a. March	301	
b. May	302	
c. August	303	
d. November	304	
e. Sum of lines a–d	305	
f. Average number (divide line e by 4, omit fractions)	306	
g. All other employees (pay period including March 12th)	307	
h. TOTAL EMPLOYMENT (Sum of lines f and g, item 2) ▶	308	

ITEM 3A Annual payrolls

	Key	Mil.	Thou.	Dol.
a. Production workers' wages (for employees reported in item 2f)	309	$		
b. All other salaries and wages (for employees reported in item 2g)	310			
c. TOTAL PAYROLL (item 3A) ▶	311	$		

ITEM 3B – Not applicable to this form

ITEM 3C First quarter payroll

	Key	Mil.	Thou.	Dol.
TOTAL PAYROLL FOR THE FIRST QUARTER (JANUARY–MARCH) ▶	315	$		

ITEM 4 Plant hours worked by production workers by quarter

	Key	Mil.	Thou.	Hrs.
a. January through March	316			
b. April through June	317			
c. July through September	318			
d. October through December	319			
e. TOTAL HOURS WORKED (item 4) ▶	320			

ITEM 5 Cost of materials, resales, fuels, electricity, and contract work

	Key	Mil.	Thou.	Dol.
a. Cost of materials, parts, supplies, containers, etc., which were put into production, used as operating supplies, or used in repair and maintenance	321	$		
b. Cost of products bought and sold without further manufacture or assembly (Resales)	322			
c. Cost of fuels consumed during the year for heat and power	323			
d. Cost of purchased electricity	324			
e. Cost of contract work done for you by others on your materials	325			
f. TOTAL COST (item 5) ▶	326	$		

ITEM 6 – Not applicable to this form

ITEM 7 Inventories of this establishment

	END OF 1976 Key	Mil.	Thou.	Dol.	END OF 1977 Key	Mil.	Thou.	Dol.
a. Finished products	331	$			335	$		
b. Work-in-process	332				336			
c. Materials, supplies, fuels, etc.	333				337			
d. TOTAL INVENTORIES (item 7) ▶	334	$			338	$		

ITEM 8 Capital expenditures during year

	Key	Mil.	Thou.	Dol.
a. New structures and new additions to this plant (Exclude land)	342	$		
b. New machinery and equipment including replacements and capitalized repairs	343			
c. Used buildings and equipment	347			
d. TOTAL CAPITAL EXPENDITURES (item 8) ▶	350	$		

ITEMS 9–15 – Not applicable to this form

CENSUS USE

CONTINUE ON PAGE 2 ➔

Form MC-36B (Rev.) Page 2

ITEM 16A — Operational status

a. Mark (X) **ONE** box – *Be sure to indicate the date of any change*

		Enter figures only Mo.	Day	Year
112 1 ☐	No change in operator or operations			
2 ☐	Reorganized – *Complete report for full year and describe type of change in remarks*			
3 ☐	Started new business (newly constructed or completely equipped when started)			
4 ☐	Establishment closed (no new owner or operator), dismantled, abandoned, or destroyed			
5 ☐	Establishment idle or inactive but still owned			
6 ☐	Establishment was acquired or leased from another company			

Mark (X) **ONE** box and give name and address if –

☐ Building only acquired

☐ Complete plant acquired (building, machinery, and equipment)

Name of former operator | Enter current EI number (9 digits)

Number and street, city, State, ZIP code

	Mo.	Day	Year
7 ☐ Establishment was sold or leased to another company			

Mark (X) **ONE** box and give name and address if –

☐ Building only sold

☐ Complete plant sold (building, machinery, and equipment)

Name of new operator | Enter current EI number (9 digits)

Number and street, city, State, ZIP code

b. Is the FIRST DIGIT of your Census File Number (imprinted in the address box) a Zero "0"? ☐ YES – *Complete item 16B, a through d* ☐ NO – *SKIP to item 16C*

ITEM 16B — Ownership and control

Enter the company name and address *(Number and street, city, State, ZIP code)* and EI number. If more space is needed to list companies, use remarks section.

113 a. Is this company owned or controlled by another company? 1 ☐ YES → 603 Name and address of owning or controlling company | Enter current EI number (9 digits)

2 ☐ NO

114 b. Does this company own or control any other company or companies? 1 ☐ YES → 604 Name and address of owned or controlled company | Enter current EI number (9 digits)

2 ☐ NO

c. Did this company have any manufacturing plants under construction but not in operation at the end of the year? 1 ☐ YES 2 ☐ NO

d. Did this company operate at more than one location during the survey year? If more space is needed, attach separate sheet. 1 ☐ YES – *List additional locations below* 2 ☐ NO – *SKIP to item 16C*

Physical address of business location *(Number and street, city, State, ZIP code)* (1)	Employer Identification Number (2)	Kind of business at this location (3)	Sales and receipts (4) Mil.	Thou.	Dol.	Annual payroll (5) Mil.	Thou.	Dol.	Number of employees (6)	Are these figures included on the front of this report? (7)
605	606 *(9 digits)*	607	608			609			610	☐ YES ☐ NO
605	606 *(9 digits)*	607	608			609			610	☐ YES ☐ NO

ITEM 16C — CHECKS to assure a complete and accurate report

The Bureau of the Census reviews this report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning this report.

- Review the report carefully to see that no items are omitted for the year being covered.
- Calculate and enter figures for the four "reasonableness" checks below, and review the results.
- Correct your report for any errors you find and explain unusual figures in remarks.

For most manufacturing establishments, the figures computed usually fall within the ranges indicated.

"Reasonableness" checks	Calculation required for each check	Figures for survey year	Usual range
a. Average hourly wages per production worker	Item 3Aa (Production workers' wages) ÷ item 4e (Total hours worked)	$/hr.	$2 – $10
b. Hours worked per year per production worker	Item 4e (Total hours worked) ÷ item 2f (Average number of production workers)	hrs./yr.	1000 – 3000
c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) ÷ item 18 (Total value of shipments)	¢	05¢ – 95¢
d. Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ item 18 (Total value of shipments)	¢	05¢ – 95¢

e. Is the total for Value of Shipments (item 18) greater than the sum for payroll (item 3Ac) plus total Cost of Materials, etc. (item 5f)? ☐ YES ☐ NO – *Explain in remarks*

Remarks – *Please use this space for any explanations that may be essential in understanding your reported data.*

SPECIAL INSTRUCTIONS FOR ITEMS 2–8

▶ **Item 2 – Number of employees** – Report all employees at this establishment who received pay for part of the pay period including the 12th of the specified months. Include officers at this establishment, if a corporation; if an unincorporated concern exclude proprietor or partners.

▶ **Items 2a–2d – Number of production workers** – Report workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspecting,and other manufacturing.

▶ **Item 2g – All other employees** – Report nonproduction personnel, including those engaged in supervision (above the working foreman level), installation and servicing of own product, sales, delivery, professional, technical, administrative, etc.

▶ **Item 3a – Annual payrolls** – Report gross earnings prior to deductions paid in the calendar year to those employees reported in item 2. Include commissions, dismissal pay, bonuses, and vacation pay.

▶ **Item 4 – Plant hours worked by production workers by quarter** – Include all production hours worked, including overtime hours,but excluding paid vacations, etc. These should be reported as actual hours worked, not straight-time equivalent hours.

▶ **Item 5 – Cost of materials, etc.** – Report total delivered cost after discounts and including freight of the materials actually consumed or put in production during the year. Include purchases, interplant transfers, and withdrawal from inventories.

If there are no records of consumption, purchases may be reported instead for minor items. This can also be done for major items if purchases do not differ significantly from the amounts actually used. Where consumption of major items differs significantly from purchases, consumption may be estimated by adding beginning inventories to the amount purchased and subtracting ending inventories.

▶ **Item 5a – Cost of materials, parts, supplies, containers, etc., consumed** – The delivered cost figures should cover all raw materials, containers, scrap, supplies, etc., which were: (1) put into production, (2) used as operating supplies, (3) used in repair and maintenance. Item 5a should be consistent with the data in item17B.

▶ **Item 5b – Cost of products bought and sold** – Report the cost of all products bought and sold in the same condition as when purchased, and not made part of another product manufactured by this establishment. (Total sales value of all products sold is to be reported in item 18 on the line for resales.)

▶ **Item 5c – Cost of fuels consumed** – Report the total cost of all fuels consumed for heat, power, transportation, or the generation of electricity. Do not include the estimated cost of fuels, such as sawdust or blast furnace gas, produced as a by-product of your manufacturing activities. Include anthracite and bituminous coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, gasoline, and all other fuels including purchased steam.

▶ **Item 5d – Cost of purchased electricity** – Report the total cost of electric energy purchased from other companies or received from other establishments of your company. Exclude the value of electricity generated and used at this establishment.

▶ **Item 5e – Cost of contract work done for you by others on your materials** – If any contract work was done by others on materials furnished by your establishment, report the total payments made during the year for such work, including freight out and in. Exclude the cost of materials worked on, which should be included in item 5a.

▶ **Item 8 – Capital expenditures during year (Exclude expenditures for land)** – Include all costs actually incurred during 1977 chargeable to the fixed assets accounts and of the type for which depreciation or amortization accounts are ordinarily maintained. This should include construction and repair work performed by your own forces.

CONTINUE ON PAGE 3 →

Page 3

FORM MC-36B (Rev.) U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

1977 CENSUS OF MANUFACTURES

SWITCHGEAR AND SWITCHBOARD APPARATUS AND INDUSTRIAL CONTROLS – Continued

PLEASE ENTER THIS ESTABLISHMENT'S 11-DIGIT CENSUS FILE NUMBER

Name of establishment (Same as address box)

Item 17A WATER USE DURING 1977

348

1. What was the total quantity of water intake for this establishment for use in the production process and auxiliary operations (such as cooling and condensing, sanitary services, and boiler feed) during the calendar year 1977?

Mark (X) one box only

1 ☐ Under 1 million gallons
2 ☐ 1–9 million gallons
3 ☐ 10–19 million gallons
4 ☐ 20–49 million gallons
5 ☐ 50–99 million gallons
6 ☐ 100 million gallons or over

349

2. Did you recirculate any water during the calendar year 1977? . . . . . 1 ☐ YES 2 ☐ NO

Item 17B CONSUMPTION OF SELECTED MATERIALS DURING 1977

Instructions - Please read

1. **GENERAL** – The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 18. Please review the entire list and **report separately** for each item consumed. The materials, parts, and supplies consumed at this establishment which are not prelisted should be described and reported in the "All other materials, etc." line at the end of this section. If your consumption of a listed material is valued at less than $10,000, enter an (X) in column (E) and include the value with "All other materials, etc." Census material code 970099 8.

   If your book records do not contain information as requested, **reasonable estimates are acceptable.**

2. **VALUATION OF MATERIALS CONSUMED** – The value of the materials, etc., consumed should be based on the delivered cost, i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials. This includes purchases, transfers from other establishments of your company, and withdrawals from inventories.

   Materials transferred to you from other plants within your company should be assigned their full economic value, as assigned by the shipping plant, plus cost of freight and handling charges.

3. **CONTRACT WORK** – Materials purchased for use by others making products for you on a contract basis should be included. Amounts paid to other companies for such contract work should be reported in item 5e, and should include freight in and out. Materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.

4. **MATERIALS PRODUCED AND CONSUMED** – Materials, parts, and supplies which are produced and consumed in the same establishment in the manufacture of products should be reported in column (C-1). Please report only the quantities of these materials produced and consumed. If the specific input materials used to produce these items are listed, the quantity and value should be reported in columns (C-2) and (D). If not, the cost should be included in the "All other materials, etc." line, Census material code 970099 8.

Line number	Materials, parts, and supplies (A)			5 Census material code 571 (B-1)	Unit of measure for quantities (B-2)	Quantities produced and consumed 572 (C-1)	Materials purchased and consumed: Quantity 573 (C-2)	Materials purchased and consumed: Cost, including delivery cost (freight-in) (D) 574 Millions 000	Thousands 000	Dollars 000	If you consumed less than $10,000 of the item enter (X) 575 (E)
1	MILL SHAPES AND FORMS (EXCEPT CASTINGS)	Carbon steel	Bars and bar shapes	331011 7	Short tons			$			
2			Sheet and strip	331012 5							
3			Plates	331013 3							
4			Structural shapes	331015 8							
5			All other	331019 0							
6		Alloy steel (except stainless)		331020 8							
7		Stainless steel	Sheet and strip	331033 1							
8			All other	331050 5							
9		Insulated wire and cable, except magnet wire	Copper – Report quantity of copper content only in column (C-2)	335792 8	Thousand pounds						
10			Aluminum – Report quantity of aluminum content only in column (C-2)	335793 6							
11		Magnet wire		335770 4							
12		Copper and copper-base alloy	Bare wire (for electrical conduction only)	335728 2							
13			Rod, bar, and mechanical wire, including extruded and/or drawn shapes	335102 0							
14			Plate, sheet, and strip, including military cups and discs	335143 4							
15			Pipe and tube	335152 5							
16		Aluminum and aluminum-base alloy	Sheet, plate, and foil	335301 8							
17			Extruded shapes, including extruded rod, bar, pipe, tube, etc.	335405 7							
18			All other (wire, rolled rod and bar, powder, welded tubing, etc.)	335008 9							
19	CASTINGS (ROUGH AND SEMIFINISHED)	Steel		332045 4	Short tons						
20		Aluminum and aluminum-base alloy		336100 3	1,000 lbs.						
21		Copper and copper-base alloy		336200 1	1,000 lbs.						
22	INDUSTRIAL ELECTRICAL CONTROL EQUIPMENT	(Received for incorporation only into other industrial electrical control equipment shipped, as such, by this plant) Purchased from other companies		362200 8							
23		Received from other plants of your company		362209 9							
24	Porcelain, steatite, and other ceramic electrical products			326400 9							
25	Plastic products consumed in the form of sheets, rods, tubes and other shapes			307903 5							
26	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but exclude sheets, rods, tubes and shapes			282104 9	Thousand pounds						
27	Nonferrous metal smelter and refinery shapes, including precious metal			333001 6	Thousand pounds						
28	Bolts, nuts, screws, rivets, and screw machine products			345001 2							
29	Switches, except snap, toggle and push, and circuit breakers			361301 5							
30	Electric motors, generators and parts			362101 8							
31	Sheet metal products, except stampings			344401 5							
32	Resistors, capacitors, transformers, transducers, and other electronic-type components, except electron tubes and semiconductors			367001 5							
33	Cost of all other materials and components, parts, containers, and supplies consumed including those values checked in column (E) . . . . . *Describe the three principal materials, etc., included in this value.*			970099 8							
34	**TOTAL** *Sum of lines 1–33 should be same as item 5a*							$			

CONTINUE ON PAGE 4 →

Form MC-36B (Rev.)

Item 18 ▶ **PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1977**

Instructions - Please read

1. **GENERAL** — The products and services listed below are those that are generally made in your industry. Please review the entire list before completing the inquiry. If you produce products that are not prelisted, they should be described and reported in the "All other products" section at the end of item 18. **Please do not combine product lines.**

   Products for which quantity data are requested should be reported in the unit of measure specified.

   If your book records do not contain information as requested, **reasonable estimates are acceptable.**

2. **VALUATION OF PRODUCTS** — The value of the products shipped and services performed should be based on the **net selling value, f.o.b. plant,** after discounts and allowances, and exclusive of freight charges and excise taxes.

   When transferring products to other establishments within your company, the shipping plant should assign the full economic value to the transferred products, i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

3. **PRODUCTS BOUGHT AND SOLD WITHOUT FURTHER MANUFACTURE** — Products which you purchase and sell as originally purchased (not used in the further manufacturing, processing, or assembling of products made in this establishment) should be reported as "Resales," Census product code 99989 00 6.

4. **CONTRACT WORK**

   a. **Products made by others for you from your materials:** Report such products on the specific lines of this section as if they were made in this establishment.

   b. **Products that you made from materials owned by others:** Report the amount that you received for "commission or contract receipts" on line 29, Census product code 93000 00 8. Do not report on the specific product lines for these products.

5. **DETAILED DATA REPORTED ELSEWHERE** — This report requires totals for groups of products covered in more detailed Current Industrial Reports (CIR). If you report on the CIR forms the value of shipments for items designated by an asterisk should equal the sum of the detail reported on the CIR's.

Line number	Products and services (5) — * Item corresponds to products reported on Current Industrial Reports (A)	Census product code 581 (B-1)	Unit of measure for quantities (B-2)	Corresponds to the sum of products for 1977 reported on – Census form (B-3)	Corresponds to the sum of products for 1977 reported on – Code (B-4)	Products shipped and other receipts: Quantity 583 (D)	Value, f.o.b. plant (E) 564 Millions 000	Thousands 000	Dollars 000
1	Switchgear, except ducts and relays (36131)*	36131 00 1		MA-36A	3613109–3613193		$		
2	Power circuit breakers, all voltages (36132)*	36132 00 9			3613215–3613230				
3	Low voltage panelboards and distribution boards and other switching and interrupting devices, 750 volts and under (36133)*	36133 00 7			3613311–3613398				
4	Fuses and fuse equipment under 2300 volts, except power distribution cut-outs (36134)*	36134 00 5			3613431–3613493				
5	Molded case circuit breakers, 750 volts and under (36135)*	36135 00 2			3613511–3613595				
6	Duct, including plug-in units and accessories, 750 volts and under (36136)*	36136 00 0			3613611–3613631				
7	Relays, control circuit (36137)*	36137 00 8			3613701–3613704				
8	General industry power circuit devices, controls, and parts (36220)*	36220 00 2			3622012–3622099				
9	Integrating instruments, electrical (38251)*	38251 00 5		MA38B	3825110–3825161				
10	Instruments to measure electricity (38253)*	38253 00 1		MA38B	3825308–3825376				
11	Power mercury arc rectifiers	36292 51 4	No. of units						
12	Current-carrying wiring devices, including lightning rods (36430)*	36430 00 7		MA36K	3643001–3643099				
13	Electrical metallic conduit and conduit fittings (36442)*	36442 00 2		MA36K	3644221–3644273				
14	Resistors for electronic applications (36700)*	36700 00 3	Thousands of units	MA36N	3676011–3676064				
15	Controls for monitoring residential and commercial environments and appliance regulating controls (38220)*	38220 00 0		MA38B	3822020–3822080				
16	Fractional horsepower motors (exclude hermetics) (36211)*	36211 00 1		MA36H	3621101–3621185				
17	Fractional motor-generator sets and other rotating equipment, including hermetics (36217)*	36217 00 8		MA36H	3621721–3621798				
18	Land transportation motors, generators, control equipment and parts (36213)*	36213 00 7		MA36H	3621311–3621393				
19	Parts and supplies for motors, generators, and motor generator sets, except for land transportation equipment. (Exclude motors for built in jobs)	36219 11 1							
20	Parts and attachments for adding, calculating, accounting machines and cash registers produced by complete machine manufacturers*	35745 10 8		MA35R	3574510				
21	Copper and copper-base alloy wire (bare and tinned) for purposes other than electrical transmission (alloyed)	33511 31 2	Short tons						
22	Galvanizing and other hot dip coatings	34790 31 1							
23	ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT — *Describe and report separately for each product whose value was $50,000 or more and* ***not listed above****. Specify unit of measure for quantity.*								
24									
25									
26									
27									
28	*Report a single total value for your remaining products* ***not listed above.***	77777 00 1							
29	CONTRACT WORK — Receipts for work done for others on their own materials ..... *Describe products worked on and kind of work*	93000 00 8							
30	MISCELLANEOUS RECEIPTS — Sales of scrap and refuse	99980 13 8							
31	Receipts for repair work	99980 61 7							
32	Other miscellaneous receipts	99980 98 9							
33	RESALES — Sales of products bought and sold without further manufacture, processing, or assembly in this establishment. *The cost of such items should be reported in item 50.*	99989 00 6							
34	**TOTAL** *Sum of lines 1–33 column (E)* ▶	77000 00 6				▶	$		

CONTINUE ON PAGE 5 ➔

FORM MC-36B (Rev.) U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

1977 CENSUS OF MANUFACTURES

SWITCHGEAR AND SWITCHBOARD APPARATUS AND INDUSTRIAL CONTROLS – Continued

PLEASE ENTER THIS ESTABLISHMENT'S 11-DIGIT CENSUS FILE NUMBER

Name of establishment (same as address box)

Item 19 – Not applicable to this form

Item 20 SELECTED METALWORKING AND RELATED OPERATIONS PERFORMED IN THIS ESTABLISHMENT DURING 1977

Mark (X) appropriate box

5 Census code	YES	NO
591 208	592 1 ☐	592 2 ☐

Were any of the operations listed below performed in this establishment in 1977?

If "Yes," indicate in column (C) by marking appropriately, which of the specified operations were performed in this establishment during 1977. Where "Yes" is marked, show in column (D) the approximate number of production workers on all shifts usually engaged in the specified operation.

Line number	Operation (A)	5 Census code 591 (B)	Was this operation performed in this establishment during 1977? 592 (C) Yes	(C) No	Number of production workers (on all shifts) usually employed when operated (estimate if necessary) 593 (D)
1	Foundry (iron or steel)	018	1 ☐	☐	
2	Foundry (nonferrous, except die casting)	026	1 ☐	☐	
3	Electroplating and other plating	059	1 ☐	☐	
4	Heat treating of metals for production purposes	075	1 ☐	☐	
5	Automatic screw machine department	083	1 ☐	☐	
6	Machine shop	091	1 ☐	☐	
7	Tool and die shop (if separate from machine shop) for jigs, fixtures, dies, and other special tooling	109	1 ☐	☐	
8	Pattern shop (foundry patterns only – metal, wood, etc.)	117	1 ☐	☐	
9	Plate or structural fabrication	125	1 ☐	☐	
10	Stamping, blanking and forming of metals	133	1 ☐	☐	
11	Painting, lacquering and enameling on metals	141	1 ☐	☐	
12	Plastics molding	158	1 ☐	☐	

Item 21 – Not applicable to this form

Remarks – *Please use this space for any explanation that may be essential in understanding your reported data.*

Item 22 CERTIFICATION

This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report	Telephone: Area code	Number	Extension	Period covered → From: Mo. Day Year	To: Mo. Day Year
Address – *Number and street*				Signature of authorized person	
City	State	ZIP code		Title	Date

PENALTY FOR FAILURE TO REPORT — DUE DATE: FEBRUARY 15, 1978

FORM MC-37EX
(RAILROAD SHOPS)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 CENSUS OF MANUFACTURES

LOCOMOTIVES AND CARS BUILT AND REBUILT IN SHOPS OF OPERATING RAILROADS

Please complete and return this form as soon as possible after receipt to

BUREAU OF THE CENSUS
Industry Division
Washington, D.C. 20233

NOTICE – Response to this inquiry is **required by law (title 13, U.S. Code).** By the same law, your report to the Census Bureau is **confidential.** It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are **immune from legal process.**

In correspondence pertaining to this report, please refer to this Census File Number

Employer Identification Number

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Instructions - Please read

Please return one copy of this report to the Bureau of the Census, Industry Division, Washington, D.C., 20233, WITHIN 30 DAYS. A separate report should be completed for each shop of your company at which any locomotives or railroad cars were built or rebuilt during 1977.

Include as "rebuilt" locomotives and railroad cars those for which the cost of their dismantling, improvement, and modernization is more than 50 percent of the replacement cost of a new unit of the same class and kind at the time of rebuilding. Do not include as "rebuilt" any conversions or reclassifications, nor units which were reconditioned by replacing defective parts. The values reported for "rebuilt" locomotives and cars should represent the additional value written into the property account.

Item A – NAME OF ESTABLISHMENT COVERED BY THIS REPORT	
Item B – LOCATION OF ESTABLISHMENT	Number and street City / State / ZIP code
Item C – NATURE OF ACTIVITY	Describe briefly the kind of activity of this establishment
Item D – MAN-HOURS OF PRODUCTION WORKERS	Were more than 50 percent of the total production worker man-hours worked at this shop during 1977 devoted to building or rebuilding locomotives, passenger cars, or freight cars? ☐ Yes ☐ No

PLEASE CONTINUE ON PAGE 2

Form MC-37EX

Page 2

Item E ▶ **PRODUCTS MADE IN RAILROAD SHOP DURING 1977**

Instructions - Please read

Columns (D) and (E) — Total built and rebuilt — Locomotives and cars built and rebuilt by railroads in their shops for their own use should be reported when they are transferred from the shop to the operating part of the company. The value of new locomotives and cars built by railroads for their own use should represent the amount at which they were written into the property accounts. The value reported for locomotives and cars "rebuilt" by railroad companies should represent the additional value written into the property account.

Report separately each product listed; do not combine product lines.

Lines 1–4, 21, and 22 — Include under "rebuilt," locomotives and railroad cars for which the cost of their dismantling, improvement, and modernization is more than 50 percent of the replacement cost of a new unit of the same class and kind at the time of rebuilding. Do not include as rebuilt any units which were reconditioned by replacing defective parts. Do not include conversions or reclassifications.

Column (F) — Weight of items reported in column (D) — Report the weight of locomotives and cars as the empty light weight or "tare" weight.

Line number	Product (A)				Census product code 581 (B)	Total built and rebuilt: Quantity (NUMBER OF UNITS) 583 (D)	Total built and rebuilt: Value f.o.b. plant (THOUSANDS OF DOLLARS) 584 (E)	Weight of items reported in column (D) (SHORT TONS) 585 (F)
1	LOCOMOTIVES, BOTH NEW AND REBUILT, AND PARTS FOR LOCOMOTIVES SOLD SEPARATELY (37431)	Locomotives	Diesel-electric (except mining type)	Rail service type	37431 11 1		$	
2				Other types	37431 15 2			
3			Other (except mining type)	Rail service type	37431 21 0			
4				Other types	37431 25 1			
5			Mining type, including both new and rebuilt		37431 60 8			
6		Parts for locomotives	Air brakes		37431 72 3			
7			Other locomotive parts, except wheels and axles		37431 79 8			
8	PASSENGER AND FREIGHT TRAIN CARS, NEW (37432)	Freight train cars, new	Box		37432 11 9			
9			Flat		37432 15 0			
10			Gondola		37432 25 9			
11		Hopper (covered)	Steel		37432 28 3			
12			Aluminum		37432 32 5			
13			Other		37432 34 1			
14		Hopper (uncovered)			37432 31 7			
15		Tank			37432 41 6			
16		Caboose			37432 45 7			
17		Other freight train cars, including refrigerator cars and industrial rail cars	Suitable for common carrier service		37432 51 5			
18			Not suitable for common carrier service		37432 52 3			
19		Passenger train cars, new	Self-propelled vehicles designed to carry passengers or articles		37432 61 4			
20			Non-self-propelled vehicles, including coach, coach combination, etc.		37432 62 2			
21	STREET CARS, PARTS AND ACCESSORIES FOR RAILROAD CARS AND STREET CARS, AND REBUILT PASSENGER AND FREIGHT TRAIN CARS (37433)	Rebuilt passenger and freight train cars	Rebuilt passenger train cars		37433 31 5			
22			Rebuilt freight train cars		37433 51 3			
23		Self-propelled street cars, subway cars, rapid transit, trolley buses, etc.			37433 61 2			
24		Non-self-propelled street cars, subway cars, rapid transit, trolley buses, etc.			37433 62 0			
25		Other work and service railroad vehicles (exclude locomotive cranes)			37433 69 5			
26		Parts and accessories for railroad and street cars	Airbrake equipment		37433 71 1			
27			Other railroad and street car parts and accessories		37433 79 4			
28	**TOTAL** *Sum of lines 1–27* ▶				77000 00 8	▶	$	

Remarks — *Please use this space for any explanation that may be essential in understanding your reported data.*

Item F ▶ **CERTIFICATION**

This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report	Telephone: Area code	Number	Extension	Period covered ▶ From: Mo.	Day	Year	To: Mo.	Day	Year

Address — *Number and street*	Signature of authorized person	

City	State	ZIP code	Title	Date

PENALTY FOR FAILURE TO REPORT DUE DATE: Form Approved: O.M.B. No. 41-R2611

FORM MA-100(SU) U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

1977 ANNUAL SURVEY OF MANUFACTURES

NOTICE – Response to this inquiry is **required by law** (title 13, U.S. Code). By the same law, your report to the Census Bureau is **confidential**. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are **immune from legal process.**

RETURN TO: Bureau of the Census, 1201 East Tenth Street, Jeffersonville, Indiana 47132

NOTE ▶ • *This is the first sheet of the 1977 Census of Manufactures form* • *PLEASE READ INSTRUCTION MANUAL*

110 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 111 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 — In correspondence pertaining to this report refer to this Census File Number (11 digits) — Employer Identification Number

201 TAB
202 IND-T
203 AREA
204 INFL
205 CCS

ITEM 1A Physical Location — Complete a, b, and c.

a. Is this establishment located in the State, county, and place shown below? *(If blank or incomplete, please complete (1) through (4).)* 650
1 ☐ YES – *SKIP to part b*
2 ☐ NO – *Correct or complete lines (1) through (4)*

(1) Number and street

(2) City, village, or other place | State | ZIP code

(3) County | (4) If you corrected lines 1, 2, 3, give year moved to new location 19__

(Please correct any error in name and address including ZIP code)

b. Type of municipality indicated in 1Aa(2): 1 ☐ City 2 ☐ Town 3 ☐ Village 4 ☐ Borough 5 ☐ Township 6 ☐ Unincorporated 7 ☐ Other – *Specify* 8 ☐ Don't know

c. Is this establishment located inside the legal boundaries of the city, town, village, etc., indicated in 1Aa(2)? 1 ☐ Yes 2 ☐ No 3 ☐ No legal boundaries 4 ☐ Don't know

NOTE – The area served by a post office generally does not coincide with the legal boundaries of the municipality from which it takes its name.

ITEM 1B Employer Identification Number(s) — Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1977 Employer's Quarterly Federal Tax Return, Treasury Form 941?
☐ YES ☐ NO – *Enter current EI number* → (9-digits) 108

ITEM 1C Organizational status 109: 1 ☐ Individual proprietorship 2 ☐ Partnership 0 ☐ Corporation (Do not mark if any form of cooperative association) 8 ☐ Cooperative association (corporate or non-corporate) 9 ☐ Other – *Specify*

NOTE ▶ Figures for dollars, man-hours, KWH should be rounded to thousands. However, you may enter figures to nearest dollars. Carefully enter your figures in the correct columns, e.g., if payroll is $1,125,628, report either . . . . . | Mil. | Thou. | Dols. | OR | Mil. | Thou. | Dols.
$ 1 | 126 | | | $ 1 | 125 | 628

Complete each item, enter "0" when appropriate.

	Key	1977 Number	1976 Number
ITEM 2 – Number of employees			
Number of production workers during pay period including the 12th of month: a. March	301		
b. May	302		
c. August	303		
d. November	304		
e. Sum of lines a–d	305		
f. Average number *(Divide line e by 4)*	306		
g. All other employees (pay period of March 12)	307		
h. TOTAL f and g (Item 2) →	308		

ITEM 3A – Annual payrolls	Key	1977 Mil.	1977 Thou.	1977 Dols.	1976 Mil.	1976 Thou.	1976 Dols.
a. Production workers' wages	309						
b. All other salaries and wages	310						
c. TOTAL (Item 3A) →	311						
ITEM 3B – Employer's cost for fringe benefits (supplemental labor costs) *(Exclude from items 3A and 3C)* a. Legally required including Social Security	312						
b. Payments for voluntary programs	313						
c. TOTAL (Item 3B) →	314						
ITEM 3C – First quarter payroll Total payroll for the first quarter (Jan.–March)	315				XXX	XXX	XXX

ITEM 4 – Plant hours worked by production workers	Key	1977 Mil.	1977 Thou.	1977 Hours	1976 Mil.	1976 Thou.	1976 Hours
a. January through March	316						
b. April through June	317						
c. July through September	318						
d. October through December	319						
e. TOTAL (Item 4) →	320						

ITEM 5 – Cost of materials and services used	Key	1977 Mil.	1977 Thou.	1977 Dols.	1976 Mil.	1976 Thou.	1976 Dols.
a. Cost of materials, parts, components, containers, etc., used	321						
b. Cost of products bought and sold as such	322						
c. Cost of fuels consumed for heat or power *(See item 12)*	323						
d. Cost of purchased electricity *(See item 6)*	324						
e. Cost of contract work done for you by others	325						
f. TOTAL (Item 5) →	326						

ITEM 6 – Quantity of electricity	Key	1977 Kilowatt hours Mil.	Thou.	Units	1976 Kilowatt hours Mil.	Thou.	Units
a. Purchased electricity (quantity comparable to cost as reported in item 5d)	327						
b. Generated electricity (gross less generating station use)	328						
c. Electricity sold or transferred to other establishments	329						

ITEM 7 – Inventories of this establishment at end of year *(Report both years)*	Key	1977 Mil.	1977 Thou.	1977 Dols.	Key	1976 Mil.	1976 Thou.	1976 Dols.
a. Finished products	335				331			
b. Work-in-process	336				332			
c. Materials, supplies, fuels, etc.	337				333			
d. TOTAL (Item 7) →	338				334			

ITEM 8 – Depreciable assets, capital expenditures, and retirements

Refer to the instruction manual for detailed instructions.

(a)	Key	1977 Total (b) Mil.	Thou.	Dols.	Key	Buildings and other structures (exclude land) (c) Mil.	Thou.	Dols.	Key	Machinery and equipment (d) Mil.	Thou.	Dols.	1976 Total (e) Mil.	Thou.	Dols.
a. Gross value of depreciable assets (usually original cost) at beginning of year	341				339				340						
b. Capital expenditures for new buildings and machinery	344				342				343						
c. Capital expenditures for used buildings and machinery	347				345				346						
d. Retirements and disposition of depreciable assets (i.e., gross value of assets sold, retired, scrapped, destroyed, etc.)	353				351				352				XXX	XXX	XXX
e. Gross value of depreciable assets at end of year (should equal lines 8a + 8b + 8c – 8d)	356				354				355						
ITEM 9 – Depreciation charges for the year	359				357				358				XXX	XXX	XXX
ITEM 10 – Rental payments	362				360				361						

ITEM 11A Total value of products shipped and other receipts

For 1977 report the total value of products shipped and other receipts as entered in **item 18.** This value should be completely comparable to the total reported for 1976. If the two figures are not comparable, please explain the reasons why in the remarks section. (Reporting by product class is not required for 1977.) →

	Key	1977 Value (a) Mil.	Thou.	Dols.	1976 Value (b) Mil.	Thou.	Dols.
	330						

ITEM 11B Value of products exported (also included in item 11A)

Report the value of products shipped for EXPORT. Include direct exports and products shipped to exporters or others for export. Do not include products shipped for further manufacture, assembly, or fabrication in the United States. 370
1 ☐ $0–24(999)
2 ☐ $25(000) or more – *Report the value of exports* → 371

ITEM 11C Unfilled orders *(See instruction manual)*

a. Does this establishment primarily produce for stock and fill orders from inventory? 372 1 ☐ Yes 2 ☐ No

b. What is the number of months normally required to fill an order? 373 1 ☐ Less than one month 2 ☐ 1 or 2 months 3 ☐ 3 months or more

NOTE – If there are any qualifications regarding the unfilled orders data, please explain in the remarks section on the reverse side and complete all parts of this item.

c. Report the value of unfilled orders on your books as of the end of the year → 374

CENSUS USE

MA-100 SU 5-77

CONTINUE ON PAGE 2 ➔

Page 2

ITEM 12 — Purchased fuels used for heat, power, and generating electricity in 1977

Kind of fuel (a)	Code 561 (b)	Unit of measure for quantities (c)	1977 Quantity 563 (d)	1977 Cost, including delivery cost (freight-in) 564 (e) Mil.	Thou.	Dols.	Unit cost calculation: Calculated unit cost (f)	Usual range of unit costs (Please explain unusual figures in remarks) (g)
1. Coal	121005 3	Short ton					$ per ton	$10–$90 per ton
2. Coke (including breeze)	331210 5	Short ton					per ton	40–150 per ton
3. Distillate fuel oil (#'s 1, 2, 4, and light diesel)	291141 0	Bbl. (42 gal.)					per bbl.	5–25 per bbl.
4. Residual fuel oil (#'s 5, 6 and heavy diesel)	291151 9	Bbl. (42 gal.)					per bbl.	5–25 per bbl.
5. Natural gas	131157 0	1,000 cu. ft.					per MCF	0.25–4.00 per MCF
6. Other fuels — *Specify kind*	960011 5							
7. TOTAL COST OF FUELS *(Should equal cost shown in item 5c, page 1)* →								

ITEM 13 — Method of valuation for inventories reported for 1977 in item 7

Using the inventory total reported for this establishment in item 7d for 1977, please indicate the breakdown of that total according to the inventory valuation methods shown.

- **Cost method** — Report amounts on lines 1a–f.
- **Market basis always used** — Report amounts on line 2b.
- **Lower of cost or market** — Report amounts valued at cost on lines 1a–f according to the applicable methods and the amount at market on line 2a.

Method of valuation (a)		Key	Amount at end of 1977 (b) Mil.	Thou.	Dols.
1. Cost	a. First-in, First-out (FIFO)	381			
	b. Last-in, First-out (LIFO)	382			
	c. Average cost	383			
	d. Specific or actual cost	384			
	e. Standard cost	385			
	f. Other — *Specify*	386			
2. Market	a. Market used for valuation because market lower than cost	387			
	b. Market always used for valuation	388			
TOTAL *(Equals the total reported in item 7d for 1977)* →		389			

During the calendar year 1977 did you change the method of valuating the inventories that you reported for this establishment? 397

1 ☐ YES — *Indicate the nature of the changes in remarks.*

2 ☐ NO

ITEM 14 — Cost of purchased services *(See Instruction Manual)*

	Key	1977 Mil.	Thou.	Dols.
1. Repair of buildings and other structures	390			
2. Repair of machinery	391			
3. Cost of purchased communication services (telephone, telegraph, etc.)	392			

ITEM 15 — Breakdown of machinery and equipment expenditures by type reported in item 8b, col. d *(See instruction manual)*

	Key	1977 Mil.	Thou.	Dols.
1. Automobiles, trucks, etc., for highway use	393			
2. Computers and peripheral data processing equipment	394			
3. All other expenditures for new machinery and equipment	395			
TOTAL *(Should be the same as item 8b, column d)* →				

ITEM 16A — Status of this establishment during 1977 *(Be sure to indicate the date of any change.)*

112 *MARK (X) ONE BOX*

	Enter figures only Mo.	Day	Year
1 ☐ No change in operator or operations			
2 ☐ Reorganized — Complete report for full year and describe type of change in remarks.			
3 ☐ Started new business (newly constructed or completely equipped when started)			
4 ☐ Establishment closed (no new owner or operator), dismantled, abandoned, or destroyed on			
5 ☐ Establishment idle or inactive but still owned			
6 ☐ Establishment was acquired or leased from another company			
☐ Building only acquired			
☐ Complete plant acquired (building, machinery, and equipment)			
Name of former operator / EI Number *(9 digits)*			
Number and street, city, State, ZIP code			
7 ☐ Establishment was sold or leased to another company			
☐ Building only sold			
☐ Complete plant sold (building, machinery, and equipment)			
Name of new operator / EI Number *(9 digits)*			
Number and street, city, State, ZIP code			

ITEM 16B — Company organization

113

a. Is this company owned or controlled by another company? 1 ☐ YES → 2 ☐ NO

114

b. Does this company own or control any other company or companies? 1 ☐ YES → 2 ☐ NO

Enter the company name and address *(Number and street, city, State, ZIP code)* and EI number. *If more space is needed to list companies, use remarks section.*

603 Name and address of owning or controlling company — EI Number *(9 digits)*

604 Name and address of owned or controlled company — EI Number *(9 digits)*

c. Did this company have any manufacturing plants under construction but not in operation at the end of the year? 1 ☐ YES 2 ☐ NO

d. Did you operate at more than one location during the survey year? *If more space is needed, attach separate sheet.* 1 ☐ YES — *List additional locations below* 2 ☐ NO — *SKIP to item 16C below*

Physical address of business location *(Number and street, city, State, ZIP code)* (a)	Employer Identification Number (b)	Kind of business at this location (c)	Sales and receipts (d) Mil.	Thou.	Dols.	Annual payroll (e) Mil.	Thou.	Dols.	Number of employees (f)	Are these figures included on the front of this report? (g)
605	606	607	608			609			610	☐ YES ☐ NO
605	606	607	608			609			610	☐ YES ☐ NO

ITEM 16C — CHECKS to assure a complete and accurate report

The Bureau of the Census reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report.

(1) Review the report carefully to see that no items are omitted for the year being covered.
(2) Calculate and enter figures for the four "reasonableness" checks below, and review the results.
(3) Correct your report for any errors you find and explain unusual figures in remarks.

For most manufacturing establishments, the figures computed usually fall within the ranges indicated.

"Reasonableness" checks	Calculation required for each check	Figures for survey year	Usual range
a. Average hourly wages per production worker	Item 3Aa (Production workers' wages) ÷ item 4e (Total hours worked)	$/hr.	$2 – $10
b. Hours worked per year per production worker	Item 4e (Total hours worked) ÷ item 2f (Average number of production workers)	hrs./yr.	1000 – 3000
c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) ÷ item 11A (Total value of shipments)	¢	05¢ – 95¢
d. Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ item 11A (Total value of shipments)	¢	05¢ – 95¢

e. Is the total for Value of Shipments (item 11A) greater than the sum for payroll (item 3Ac) plus total Cost of Materials, etc. (item 5f)? ☐ YES ☐ NO — *Explain in remarks*

Remarks — *Please use this space for any explanations that may be essential in understanding your reported data.*

PENALTY FOR FAILURE TO REPORT
DUE DATE: FEBRUARY 15, 1978

Form Approved: O.M.B. No. 41-S77001

FORM CB-50F (5006)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 CENSUS OF DISTRIBUTIVE TRADES

ELECTRICAL GOODS

Important — PLEASE READ ALL ACCOMPANYING INSTRUCTIONS

NOTICE — Response to this inquiry is **required by law (title 13, U.S. Code).** By the same law, your report to the Census Bureau is **confidential.** It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are **immune from legal process.**

In correspondence pertaining to this report, please refer to this Census File Number

CB-50F (5006)

Employer Identification Number

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47132

Census use only	Unit No.	Item code	Unit No.	Item code	Unit No.	Item code

KEEP THIS COPY FOR YOUR FILES

PLEASE COMPLETE AND RETURN THE FORM WHICH SHOWS YOUR NAME AND ADDRESS

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Item 1 – PHYSICAL LOCATION OF ESTABLISHMENT – In order to assign this establishment to the correct geographic area, the Bureau of the Census must know the actual location **which may differ from the mailing address.** *Complete items a through g.*

a. Address number and street name of physical location – *If not known, enter building name, shopping center name, or other physical location description. Do not enter P.O. box or rural route.*

Mark (X) for a, b, c, and d if same as mailing label; if different show corrections.

Same as mailing label [ ] **OR ▶**

b. Name of city, town, village, borough, etc., of physical location

Same as mailing label [ ] **OR ▶**

c. State — Same as mailing label [ ] **OR ▶**

d. ZIP code — Same as mailing label [ ] **OR ▶**

e. Type of municipality indicated in 1b — *Mark (X) one*
1 [ ] City 4 [ ] Borough 7 [ ] Other – *Specify*
2 [ ] Town 5 [ ] Township
3 [ ] Village 6 [ ] Unincorporated 8 [ ] Don't know

f. Is this establishment located inside the legal boundaries of the city, town, village, etc., indicated in 1b?
1 [ ] Yes
2 [ ] No
NOTE – The area served by a post office generally does not coincide with the legal boundaries of the municipality from which the post office takes its name.
3 [ ] No legal boundaries
4 [ ] Don't know

g. Name of county (Louisiana parish) of physical location

Item 2 – EMPLOYER IDENTIFICATION NUMBER

Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1977 Employer's Quarterly Federal Tax Return, Treasury Form 941?

1 YES
NO – *Enter current EI number* ——▶ (9 digits)

Item 3 – OPERATIONAL STATUS

a. Mark (X) the **ONE** box which best describes this establishment at the end of 1977.

001
1 [ ] In operation
2 [ ] Temporarily or seasonally inactive
3 [ ] Ceased operation – *Give date* ——▶
4 [ ] Sold or leased to another operator – *Give date* ——▶ *AND name, etc.*

Figures only

Month	Day	Year

Name of new owner or operator

Number and street

City | State | ZIP code

b. How many months during 1977 did this firm or organization actively operate this establishment? 002 — Number of months

Item 4 – ORGANIZATIONAL STATUS

a. Mark (X) the **ONE** box which best describes this establishment during 1977.

003
1 Individual proprietorship
2 Partnership
8 Cooperative association
5 Governmental – *Specify* _____
0 Corporation (other than specified above)
9 Other – *Specify* _____

b. Was all or part of the income of this establishment or organization exempt from Federal income taxes under Section 501 or 521 of the Internal Revenue Code? 004
1 YES
2 NO

Important – Please read

Dollar figures should be reported as illustrated. Please be careful to enter the figures in the **correct columns.** See example below:

EXAMPLE: If figure is $1,125,628.28 ——▶

	Millions (000)	Thousands (000)	Dollars (000)
•**PREFERRED** method	1	125	
Acceptable method	1	125	628

Item 5 – DOLLAR VOLUME OF BUSINESS IN 1977

		Mil.	Thou.	Dol.
a. Sales and other operating receipts **EXCLUDING** sales (or other) taxes collected	010			
b. Were sales (or other) taxes collected from customers and forwarded to taxing authorities?	011 — 1 YES 2 NO			
If "YES," report the amount of such taxes (**DO NOT** include taxes in 5a above)	012			
c. TOTAL SALES and other operating receipts including sales (or other) taxes (Sum of 5a and 5b above) ——▶	013			
d. Did this establishment sell merchandise on a commission basis? *If "YES," go to 5e; if "NO," SKIP to 5g.*	100 — 1 YES 2 NO			
e. Gross selling value of business conducted for the account of others (Include in 5a)	101			
f. Dollar volume of commissions or brokerage received on transactions negotiated for others	102			
g. Did your company (including firms under common ownership and control) manufacture or mine, in the United States or its possessions, 50% or more of the products sold by this establishment?	103 — 1 YES 2 NO			
h. Did this establishment have transfers (billings) to other establishments within your company? *If "YES," go to 5i; if "NO," SKIP to item 6j.*	104 — 1 YES 2 NO			
i. Dollar volume of transfers (billings) to other establishments within your company (**DO NOT** include in 5a)	105			
j. Did construction receipts represent 50% or more of the total sales (as reported in 5a) of this establishment?	106 — 1 YES 2 NO			

Item 6 – PAYROLL AND EMPLOYMENT

		Mil.	Thou.	Dol.
a. Payroll				
(1) **Total ANNUAL** payroll in 1977 before deductions	030			
(2) Payroll for the **FIRST QUARTER** of 1977	031			

b. Employment – Number of paid employees for the pay period including the 12th of the month (include both full- and part-time employees)

032 (1) MAR	033 (2) MAY	034 (3) AUG	035 (4) NOV

Item 7 – OPERATING EXPENSES AND INVENTORIES

		Mil.	Thou.	Dol.
a. Total 1977 operating expenses, including payroll ——▶	040			

b. Did you have merchandise inventories during 1977? 045 — 1 YES – *Go to 7c* 2 NO – *SKIP to item 8*

c. Indicate the value of merchandise inventories on hand at the end of the year specified according to the valuation methods shown.

- **Cost method** – Report amounts on lines (1)(a) through (e)
- **Market basis always used** – Report amounts on line (2)(b)
- **Lower of cost or market** – Report amounts valued at cost on lines (1)(a) through (e) according to the applicable methods and the amount at market on line (2)(a)

Method of inventory valuation		Key	Amount at end of 1977 Mil.	Thou.	Dol.	Key	Amount at end of 1976 Mil.	Thou.	Dol.
(1) Cost	(a) First-in, First-out (FIFO)	110				120			
	(b) Last-in, First-out (LIFO)	111				121			
	(c) Average cost	112				122			
	(d) Specific or actual cost	113				123			
	(e) Other – *Specify*	114				124			
(2) Market	(a) Market used for valuation because market lower than cost	115				125			
	(b) Market always used for valuation	116				126			
(3)	**TOTAL INVENTORIES** (Sum of lines (1)(a) through (e) and lines (2)(a) and (b)) ——▶	046				047			

Please continue on page 2 ——▶

Item 8 – TYPE OF OPERATION – Mark (X) the **ONE** item that is best suited to your business – the basis on which the major portion of your operation was conducted in 1977.

a. Merchant (buying and selling on own account) – An establishment primarily engaged in buying and selling merchandise produced by other firms on its own account.

- **Importer** – Source of purchase is primarily foreign.
- **Exporter** – Purchasing goods in the United States for delivery to customers outside the United States.
- **Wholesale merchant, jobber, distributor** – Buying and selling merchandise in the United States for delivery in the United States.

b. Manufacturers' sales branch or sales office – An establishment primarily engaged in selling goods mined or manufactured in the United States and its possessions or Puerto Rico by your company, your parent company, or companies corporately affiliated with your company.

- **Sales branch** – Manufacturers' sales outlet which carries stock.
- **Sales office** – Manufacturers' sales outlet which does not carry stock.

c. Broker, agent, commission merchant – An establishment primarily engaged in selling (or buying) merchandise on an agency basis for others, but not dealing primarily on own account.

- **Auction company** – Selling merchandise for others at wholesale from a permanent location by the auction method.
- **Broker** – Selling (or buying) merchandise on a brokerage basis for others in the United States market, but not receiving goods on consignment.
- **Commission merchant** – Receiving goods on consignment and selling them in the United States market.
- **Import agent** – Representing, on an agency basis, firms outside the United States selling goods in the domestic market.
- **Export agent** – Representing, on an agency basis, domestic firms selling merchandise for delivery outside the United States or its possessions.
- **Manufacturers' agent** – Selling for a limited number of manufacturers on a continuing agency basis.

d. Other type of operation – If none of the above types apply, describe your method of operation.

060

a. Merchant (buying and selling on own account)
- (1) Importer ☐ 12
- (2) Exporter ☐ 13
- (3) Wholesale merchant, jobber, distributor ☐ 11

b. Manufacturers' sales branch or sales office
- (1) Sales branch (with stock) ☐ 21
- (2) Sales office (without stock) ☐ 22

c. Broker, agent, commission merchant
- (1) Auction company ☐ 41
- (2) Broker (representing buyers or sellers) ☐ 42
- (3) Commission merchant ☐ 43
- (4) Import agent ☐ 44
- (5) Export agent ☐ 45
- (6) Manufacturers' agent ☐ 46

d. Other type of operation – *Specify* ☐

Item 9 – KIND OF BUSINESS – Mark (X) the **ONE** item that best describes the **principal** kind of business of this establishment in 1977. If none applies, mark the last item and enter the description by which your business is known to the trade or public.

070

a. Electrical goods
- (1) Electrical apparatus and equipment, wiring supplies, and construction materials ☐ 506300
- (2) Electrical appliances, television and radio sets ☐ 506400
- (3) Electronic parts and equipment ☐ 506500

b. Other kind of business – *Specify* ☐

Item 10 – SALES BY COMMODITY LINES

Report the volume of sales of each of the listed commodity lines which account for at least 1% of this establishment's sales. If any commodities sold are not preprinted but account for 1% or more of total sales, write in the description and volume of sales in the space provided.

Sales may be reported either in dollar figures (see example on page 1), or as a percent (in whole percents) of the total (see example).

The sum of reported commodity lines should equal the total sales as reported in item 5a if dollars are reported; if percents are used, the sum should equal 100.

EXAMPLE FOR REPORTING PERCENTS	If figure is **38.76%** of total sales:	Mil.	Thou.	Dol.	Percent
	• Report whole percents →				39%
	Not acceptable →				38.76%

Description	Census use only	Estimated sales during 1977 Mil.	Thou.	Dol.	Percent
Electrical goods	170	171			172
1. Electrical apparatus and equipment					
a. Power and distribution transformers	1311				
b. Switchgear and switchboard apparatus	1312				
c. Motors and generators	1313				
d. Industrial controls (power circuit devices and controls)	1314				
e. Electric lamps and bulbs	1316				
f. Interior wiring (Report conduit on line i)	1317				
g. Lighting fixtures (residential and commercial)	1318				
h. Communication equipment	1319				
i. Other electrical apparatus and equipment (Include conduits, transmission hardware, lightning rods, etc.)	1321				
j. **Total** (Sum of lines 1a through 1i) →	1300				
2. Electrical appliances, household	170	171			172
a. Radio and TV sets	1411				
b. Electrical household ranges and ovens	1412				
c. Refrigerators and freezers, household	1413				
d. Household laundry equipment	1414				
e. Vacuum cleaners and sewing machines, household	1415				
f. Room air conditioners	1416				
g. Other electric household appliances (Include fans, dishwashers, etc.)	1417				
h. **Total** (Sum of lines 2a through 2g) →	1400				
3. Electronic parts and equipment					
a. Electron tubes, receiving and transmitting (Include cathode ray TV picture tubes)	1511				
b. Intercommunication equipment	1512				
c. Public address equipment	1513				
d. Semiconductors, transistors, diodes, rectifiers, and other semiconductor devices (solar cells, zener diodes, etc.)	1514				
e. Other electronic parts and equipment	1515				
	170	171			172
f. **Total** (Sum of lines 3a through 3e) →	1500				

Description	Census use only	Estimated sales during 1977 Mil.	Thou.	Dol.	Percent
Other commodity lines	170	171			172
4. Automotive parts and supplies	0200				
5. Household and lawn furniture	0400				
6. Household china, glassware, and crockery	0500				
7. Linens, domestics, draperies, and shades	0520				
8. Floor coverings	0540				
9. Other home furnishings	0560				
10. Plywood, millwork	0650				
11. Sporting and recreational goods and supplies	0800				
12. Toys, hobby goods and supplies	0900				
13. Photographic equipment and supplies	1000				
14. Hardware (Include power hand tools)	1600				
15. Plumbing and heating equipment and supplies	1700				
16. Warm air heating and air conditioning equipment and supplies	1800				
17. Refrigeration equipment and supplies	1900				
18. Restaurant and hotel equipment and supplies	2020				
19. Farm machinery and equipment	2200				
20. Garden, lawn machinery and equipment	2250				
21. Jewelry, watches, diamonds, and other precious stones (Include silverware)	170 2900	171			172
22. Other durable goods (Include phonograph records and pre-recorded tapes)	3030				
23. Art goods (Include gifts, novelties, and souvenirs)	5910				
24. Miscellaneous commodities – *Specify*					
a.	9800				
b.	9800				
c.	9800				
25. Rental receipts – *Specify*	9940				
26. Service receipts and labor charges (Include installed parts)					
a. Labor charges	9711				
b. Parts installed and repair work	9712				
c. Other service receipts	9713				
d. **Total** (Sum of lines 26a through 26c) →	9700				
27. TOTAL SALES IN 1977 (Sum of lines 1 through 26 should equal the entry in item 5a) →	170 9990	171			172 100%

FORM CB-50F

Please continue on page 3 →

FORM CB-50F (5006)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 CENSUS OF DISTRIBUTIVE TRADES
ELECTRICAL GOODS

Please enter the 11-digit CENSUS FILE NUMBER as shown on this report *(See label on page 1)*

Item 11 – SALES BY CUSTOMER CLASSES

Report the approximate percentage of your 1977 sales (item 5a) to each of the customer classes listed.

Line a – Sales to laboratories, manufacturers of all types, service business, and other business concerns that normally buy for business use rather than for resale of the goods in the form purchased.

Line b – Sales to farmers for use in agricultural production.

Line c – Sales to builders and contractors for construction purposes, not for resale.

Line d – Sales to the Federal government (including the military, post exchanges, GSA, GPO, and similar Federal agencies) and to State and local governments. Include here only sales made by this establishment DIRECT to governmental agencies.

Line e – Sales to retailers of all types (retail chain organizations, independent stores, department stores, etc.) who normally buy for resale to home consumers. Sales to repair shops of all types.

Line f – Sales to organizations that normally purchase for resale at wholesale. Sales to suppliers of plumbing, electrical, farm, and office machinery and supplies. Sales through agents and brokers selling on your account.

Line h – Include sales made direct to buyers in foreign countries, or through their agents in this country. Include transfers, if any, to your own foreign branches. United States possessions should not be considered as foreign countries.

		Whole percents
a. To institutional, industrial, commercial, and professional users *Report sales to repair shops on line e.*	141	
b. To farmers (for farm use)	142	
c. To builders	143	
d. To governmental bodies (Federal, State, and local governments)	144	
e. To retailers and repair shops	145	
f. To wholesale establishments	146	
g. To household consumers and individual users	147	
h. Export sales	148	
i. **TOTAL (Sum of lines a through h should add to 100)** ⟶		100%

Item 12 – EMPLOYMENT BY PRINCIPAL ACTIVITY

Report the approximate number of employees at this establishment according to their principal activity during the pay period including March 12, 1977 (total should equal item 6b(1)).

Line a – Include employees primarily engaged in selling services and merchandise from this establishment.

Line b – Include traveling salesmen, truck salesmen, etc.

Line c – Include employees primarily engaged in office and clerical work for this establishment. (See instruction for line e.)

Line d – Include employees primarily engaged in warehousing activities for this establishment. (See instruction for line e.)

Line e – Central administrative – Employees primarily engaged in various management, accounting, clerical, warehousing, etc., services for **other** establishments of your company. Include corporate officers unless primarily engaged in sales activities.

		Number of employees
a. Inside selling	130	
b. Outside selling	131	
c. Office and clerical	132	
d. Warehousing	133	
e. Administrative	134	
f. Manufacturing	135	
g. Other – *Specify*	136	
h. **TOTAL (Sum of lines a through g should equal entry in item 6b(1))** ⟶	137	

Item 13 – WAREHOUSE, STOCKROOM, AND OTHER INVENTORY STORAGE SPACE, DECEMBER 31,1977

Report occupiable floor space excluding space occupied by interior walls, permanent aisles, elevator shafts, stairways, offices, receiving and shipping platforms, etc.

a. **Did you have warehouse, stockroom, or other inventory storage space on December 31, 1977?** 149
1 [ ] YES – *Go to 13b*
2 [ ] NO – *SKIP to item 15*

		Square feet Mil.	Thou.	000
b. Occupiable floor space (under-roof) – occupied and unoccupied – of this establishment	150			

Item 14 – Not applicable to this form

Item 15 – CREDIT SALES, RECEIVABLES, AND BAD DEBT LOSSES

a. **Did you have credit sales, receivables, or bad debt losses in 1977?** 155
1 [ ] YES – *Go to 15b*
2 [ ] NO – *SKIP to item 16*

b. Approximately what percent of your 1977 sales were made on credit? 156 ____ %

		Mil.	Thou.	Dol.
c. Accounts and notes receivable, outstanding as of December 31, 1977	157			
d. Bad debt losses, 1977	158			

Item 16 – TRUCKS, TRUCK TRACTORS, AND TRUCK TRAILERS OPERATED, MID-DECEMBER 1977

a. **Did this establishment operate any trucks, truck tractors, or truck trailers mid-December 1977?** 160
1 [ ] YES – *Go to 16b*
2 [ ] NO – *SKIP to item 17*

b. Number and type of vehicles operated mid-December 1977	TOTAL	Owned	Rented or leased (without drivers)
(1) Trucks (except tractor trailer)	161	162	163
(2) Truck tractors	164	165	166
(3) Semi-trailers and full-trailers	167	168	169

Remarks – *Please use this space for any explanation that may be essential in understanding your reported data.*

Item 17 – CERTIFICATION

Census use only | 18a. [ ] YES [ ] NO | 18b. [ ] YES [ ] NO | 19a. [ ] YES [ ] NO | 19b. Number 079 | Not returned [ ] | Blank [ ]

Name of person to contact regarding this report

Telephone: Area code | Number | Extension

Address – *Number and street*

City | State | ZIP code

This report is substantially accurate and has been prepared in accordance with instructions.

Period covered ⟶ From: Mo. | Day | Year — To: Mo. | Day | Year

Signature of authorized person

Title | Date

O.M.B. No. 41-R2349: Approval Expires November 30, 1978

FORM MA-171 (11-25-77)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

DEPARTMENT OF DEFENSE-OWNED AND OPERATED ESTABLISHMENTS PRIMARILY ENGAGED IN MANUFACTURING AND ASSEMBLY, AND/OR RESEARCH AND DEVELOPMENT – 1977

(Includes shipyards)

(Supplement to the Annual Survey of Manufactures, Census Form MA-100)

INSTRUCTIONS – This report is to be prepared by those Department of Defense establishments whose primary activities are manufacture and assembly and/or research and development. All shipyards are included.

The information requested is based upon reports now regularly prepared by most such establishments.

NOTICE – Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

(Please correct if any error in name and address, including ZIP code)

PLEASE RETURN THIS COPY

ITEM 1 – NAME AND PHYSICAL LOCATION OF ESTABLISHMENT ON DECEMBER 31, 1977

a. Name of establishment

Your answers to parts b, c, d, e, and f of this item should relate to the ACTUAL PHYSICAL LOCATION of this establishment which may be different from the mailing address.

b. Street and number of establishment location *

* If establishment location cannot be described by street and number, give name and number, if any, of road or highway and sufficient information to locate establishment, e.g., Rt. 25, 3 miles south of Charlesville.

c. Type and name of place in which located – *Mark (X) first applicable type and enter name of place.*

Type	Name of place
☐ City	
☐ Village or borough	
☐ Town	
☐ Township	
☐ Other – Specify	

d. Is this establishment physically located within the legal boundaries of the place named in "c"?

☐ Yes ☐ No

e. County in which located

f. State | **ZIP code**

g. Telephone number of establishment *(Include area code)*

ITEM 2 – NATURE OF ACTIVITY

Describe briefly the kind of activity of this establishment. If a manufacturing plant, list the three most important products.

ITEM 3 EMPLOYMENT PAYROLLS IN CALENDAR YEAR 1977

(Civilian employees only)

Class of employee	Item code	Number of civilian employees in 1977 — At end of quarter (As reported on Civil Service Form SF-113-A**) March (A)	June (B)	September (C)	December (D)	Sum of columns A, B, C, and D (E)	Average number of employees (Col. E divided by 4) (F)	Total wages and salaries of civilian employees (Thousands of dollars) (G)
a. Wage Board employees	41							$
b. All others	42							$
c. **TOTAL CIVILIAN EMPLOYEES** → *(Sum of lines a and b)*	49							$

** The number of Wage Board employees (line a) should be the same as reported on line 5 of SF-113-A. The total (line c) should be the same as reported on line 1 of SF-113-A.

ITEM 4 MAN-DAYS OF WAGE BOARD EMPLOYEES BY CALENDAR QUARTER 1977

Enter the total number of man-days of Wage Board employees for each calendar quarter of 1977. Do not include days paid for vacations, holidays, or sick leave.

Item code	1977 Quarterly period	Man-days (Thousands) (A)	Estimated number of man-hours *** (Thousands) (B)
51	a. January through March		
52	b. April through June		
53	c. July through September		
54	d. October through December		
59	e. **TOTAL, 1977** → *(Sum of lines a, b, c, and d)*		

*** Obtain figure for column (B) by multiplying column (A) by average number of hours per day per Wage Board employee in this establishment.

Please continue on page 2

ITEM 5 BILLINGS BY THIS ESTABLISHMENT DURING CALENDAR YEAR 1977

Enter below the specified classes of billings of this establishment for calendar year 1977

Billings for products and services (including progress billings)	Item code	Value (Thousands of dollars)
Manufacture and assembly	61	$
Construction and conversion	62	
Overhaul, repair, and renovation	63	
Alteration and modification	64	
Research and development	65	
Other billings	66	
Total billings for products and services	67	
Increase or decrease in unbilled costs of work in progress	68	
TOTAL EARNED REVENUE →	69	

ITEM 6 COSTS DURING CALENDAR YEAR 1977

Types of costs incurred	Item code	Cost (Thousands of dollars)
Materials, supplies, and parts used	71	$
Wages and salaries (same as item 3, code 49, col. G)	72	
Contractual services and other costs	73	
TOTAL COSTS INCURRED →	79	
VALUE ADDED (Census use only)	81	

ITEM 7 CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT

(Please complete this item after you have answered all items on this report.)

The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report:

a. Review this report carefully to see that no items are omitted.
b. Calculate and enter the four "reasonableness" checks (described below), then review the resulting figures.
c. Correct your report for any errors you find; explain unusual figures in "Remarks" section.

"Reasonableness" checks	Calculation required for each check	Resulting figures for 1977
(1) Average hourly wages per Wage Board employee	Item code 41, column G (Wages paid Wage Board employees) ÷ item code 59, column B (Total estimated work-hours)	$
(2) Work-days per year per Wage Board employee	Item code 59, column A (Wage Board work-days in thousands) × 1,000 ÷ item code 41, column F (Average number of Wage Board employees)	_____ Work-days
(3) Wages and salaries per dollar of earned revenue	Item code 72, (Wages and salaries of civilian employees) ÷ item code 69 (Total earned revenue)	$

(4) Is the total earned revenue (item code 69, total) greater than total costs incurred (item code 79, total)? . . . . . ☐ Yes ☐ No — *If "No," please explain in "Remarks" section.*

ITEM 8 REMARKS PERTAINING TO THIS REPORT

PERIOD OF REPORT

This report covers the period from _____ to _____

ITEM 9

Name of person to be contracted regarding this report	Address — *Number and street, city, State, ZIP code*	Telephone — *Area code, number, extension*

ITEM 10

CERTIFICATION – This report is substantially accurate and has been prepared in accordance with instructions.

Name of establishment	Address — *Number and street, city, State, ZIP code*	
Signature of authorized official	Title	Date

FORM MA-[illegible] (11-25-77)

DUE DATE: 30 days after receipt

Form Approved: O.M.B. No. 41-S77041

FORM MC-D4
(6-7-77)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 CENSUS OF MANUFACTURES

REPORT FROM PENAL INSTITUTIONS

(Please correct any error in name or address including ZIP code)

Please complete this form and RETURN TO ➡ **BUREAU OF THE CENSUS**
Industry Division
Washington, D.C. 20233

YOUR FILE COPY

PRODUCTS MADE IN THIS ESTABLISHMENT DURING 1977

INSTRUCTIONS FOR TOTAL PRODUCTION

Column (D) — Quantity — Report where appropriate the quantity of all products you made in this institution during 1977. Include products produced for use within the institution and products transferred to other branches of your government.

Column (E) — Value — Report at approximate market value all products, either used within the institution or transferred to other governmental units.

Line No.	Product (A)	Unit of measure (B)	Total production: Quantity (D)	Total production: Value *(Thousands of dollars)* (E)	Census product code (J)
1	Meat and meat products			$	201
2	Canned foods				203
3	Coffee and tea				209
4	Tobacco, chewing and smoking				213
5	Blankets				221
6	Woven fabrics	1,000 lbs.			223
7	Cordage and twine	Thousand linear yards			229
8	Apparel and clothing, including uniforms, coats, etc.				230
9	Sheets and pillowcases				232
10	Canvas specialties				239
11	Mattresses				251
12	Wooden furniture				253
13	Printing and binding				275
14	Soaps				284
15	Paints				285
16	Shoes	Pairs			314
17	Brick — Clay	Thousand brick			325
18	Brick — Concrete	Thousand brick			326
19	Concrete blocks	Thousand block 8"×8"×16" equivalent			327
20	Motor vehicle license plates *(Count a set of front and rear plates as two plates)*	Number			346
21	Highway and road signs				399
22	Miscellaneous metal products				349
23	Brooms and brushes				399
24	Prepared animal feeds				204
25	All other products — *Specify kind and unit of measure*				
26					
27					
28					
29					
30	TOTAL *(Sum of lines 1–29)* ➡			$	

Remarks — *Please use this space for any explanation that may be essential in understanding your reported data.*

CERTIFICATION

This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report	Telephone: Area code	Number	Extension

Period covered → From: *(Mo., day, Yr.)* To: *(Mo., day, Yr.)*

Address — *Number and street*	Signature of authorized person	

City	State	ZIP code	Title	Date

APPENDIX E. Authority for Census: Title 13, United States Code

COLLECTION AND PUBLICATION: Five-year periods (131)

The Secretary shall take, compile, and publish censuses of manufactures, of mineral industries, and of other businesses . . . in the year 1964, then in the year 1968, and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof.

Geographic scope of censuses (191a)

(a) Each of the censuses authorized by this chapter shall include each State, the District of Columbia, the Virgin Islands, Guam, the Commonwealth of the Northern Mariana Islands, and the Commonwealth of Puerto Rico, and as may be determined by the Secretary, such other possessions and areas over which the United States exercises jurisdiction, control, or sovereignty. Inclusion of the other areas over which the United States exercises jurisdiction or control shall be subject to the concurrence of the Secretary of State.

Wrongful Disclosure of Information (214)

Whoever, being or having been an employee or staff member referred to in subchapter II of chapter I of this title, having taken and subscribed the oath of office, or having sworn to observe the limitations imposed by section 9 of this title, publishes or communicates any information, the disclosure of which is prohibited under the provisions of section 9 of this title, and which comes into his possession by reason of his being employed (or otherwise providing services) under the provisions of this title, shall be fined not more than $5,000 or imprisoned not more than 5 years, or both.

FAILURE TO ANSWER QUESTIONS AFFECTING COMPANIES, BUSINESSES, RELIGIOUS BODIES, AND OTHER ORGANIZATIONS: FALSE ANSWERS (224)

Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, to answer completely and correctly to the best of his knowledge all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule or questionnaire prepared and submitted to him under the authority of this title, shall be fined not more than $500; and if he willfully gives a false answer to any such question, he shall be fined not more than $10,000.

APPENDIX F. Standard Consolidated Statistical Areas and Standard Metropolitan Statistical Areas

(Titles and definitions of the SCSA's and the SMSA's in the United States established by the Department of Commerce, Office of Federal Statistical Policy and Standards, as of December 1977)

Standard Consolidated Statistical Areas

Boston-Lawrence-Lowell, Mass.-N.H.	Consists of Boston, Mass., SMSA; Lawrence-Haverhill, Mass.-N.H., SMSA; Lowell, Mass.-N.H., SMSA; and Brockton, Mass., SMSA
Chicago-Gary, Ill.-Ind.[1]	Consists of Chicago, Ill., SMSA, and Gary-Hammond-East Chicago, Ind., SMSA
Cincinnati-Hamilton, Ohio-Ky.-Ind.	Consists of Cincinnati, Ohio-Ky.-Ind., SMSA, and Hamilton-Middletown, Ohio, SMSA
Cleveland-Akron-Lorain, Ohio	Consists of Cleveland, Ohio, SMSA; Akron, Ohio, SMSA; and Lorain-Elyria, Ohio, SMSA
Detroit-Ann Arbor, Mich.	Consists of Detroit, Mich., SMSA, and Ann Arbor, Mich., SMSA
Houston-Galveston, Tex	Consists of Houston, Tex., SMSA, and Galveston-Texas City, Tex., SMSA
Los Angeles-Long Beach-Anaheim, Calif	Consists of Los Angeles-Long Beach, Calif., SMSA; Anaheim-Santa Ana-Garden Grove, Calif., SMSA; Riverside-San Bernardino-Ontario, Calif., SMSA; and Oxnard-Simi Valley-Ventura, Calif., SMSA
Miami-Fort Lauderdale, Fla	Consists of Miami, Fla., SMSA, and Fort Lauderdale-Hollywood, Fla., SMSA
Milwaukee-Racine, Wis	Consists of Milwaukee, Wis., SMSA, and Racine, Wis., SMSA
New York-Newark-Jersey City, N.Y.-N.J.-Conn.[2]	Consists of New York, N.Y.-N.J., SMSA; Nassau-Suffolk, N.Y., SMSA; Newark, N.J., SMSA; Jersey City, N.J., SMSA; New Brunswick-Perth Amboy-Sayreville, N.J., SMSA; Paterson-Clifton-Passaic, N.J., SMSA; Long Branch-Asbury Park, N.J., SMSA; Stamford, Conn., SMSA; and Norwalk, Conn., SMSA
Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md.	Consists of Philadelphia, Pa.-N.J., SMSA; Wilmington, Del.-N.J.-Md., SMSA; and Trenton, N.J., SMSA
San Francisco-Oakland-San Jose, Calif	Consists of San Francisco-Oakland, Calif., SMSA; San Jose, Calif., SMSA, and Vallejo-Fairfield-Napa, Calif., SMSA
Seattle-Tacoma, Wash.	Consists of Seattle-Everett, Wash., SMSA, and Tacoma, Wash., SMSA

Standard Metropolitan Statistical Areas

Abilene, Tex.	Consists of Callahan, Jones, and Taylor Counties, Tex.
Akron, Ohio	Consists of Portage and Summit Counties, Ohio
Albany, Ga.	Consists of Dougherty and Lee Counties, Ga.
Albany-Schenectady-Troy, N.Y.	Consists of Albany, Montgomery, Rensselaer, Saratoga, and Schenectady Counties, N.Y.
Albuquerque, N. Mex.	Consists of Bernalillo and Sandoval Counties, N. Mex.
Alexandria, La.	Consists of Grant and Rapides Parishes, La.
Allentown-Bethlehem-Easton, Pa.-N.J.	Consists of Carbon, Lehigh, and Northampton Counties, Pa.; and Warren County, N.J.
Altoona, Pa.	Coextensive with Blair County, Pa.
Amarillo, Tex.	Consists of Potter and Randall Counties, Tex.
Anaheim-Santa Ana-Garden Grove, Calif.	Coextensive with Orange County, Calif.
Anchorage, Alaska	Coextensive with Anchorage Division, Alaska
Anderson, Ind.	Coextensive with Madison County, Ind.
Ann Arbor, Mich.	Coextensive with Washtenaw County, Mich.
Anniston, Ala.[3]	Coextensive with Calhoun County, Ala.
Appleton-Oshkosh, Wis.	Consists of Calumet, Outagamie, and Winnebago Counties, Wis.
Asheville, N.C.	Consists of Buncombe and Madison Counties, N.C.
Atlanta, Ga.	Consists of Butts, Cherokee, Clayton, Cobb, De Kalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Newton, Paulding, Rockdale, and Walton Counties, Ga.

See footnotes at end of appendix.

SMSA'S—Con.

Atlantic City, N.J.	Coextensive with Atlantic County, N.J.
Augusta, Ga.-S.C.	Consists of Columbia and Richmond Counties, Ga., and Aiken County, S.C.
Austin, Tex.[4]	Consists of Hays, Travis, and Williamson Counties, Tex.
Bakersfield, Calif.	Coextensive with Kern County, Calif.
Baltimore, Md.	Consists of Baltimore[5] city and Anne Arundel, Baltimore, Carroll, Harford, and Howard Counties, Md.
Baton Rouge, La.	Consists of Ascension, East Baton Rouge, Livingston, and West Baton Rouge Parishes, La.
Battle Creek, Mich.	Consists of Barry and Calhoun Counties, Mich.
Bay City, Mich.	Coextensive with Bay County, Mich.
Beaumont-Port Arthur-Orange, Tex.	Consists of Hardin, Jefferson, and Orange Counties, Tex.
Billings, Mont.	Coextensive with Yellowstone County, Mont.
Biloxi-Gulfport, Miss.	Consists of Hancock, Harrison, and Stone Counties, Miss.
Binghamton, N.Y.-Pa.	Consists of Broome and Tioga Counties, N.Y., and Susquehanna County, Pa.
Birmingham, Ala.	Consists of Jefferson, St. Clair, Shelby, and Walker Counties, Ala.
Bloomington, Ind.[3]	Coextensive with Monroe County, Ind.
Bloomington-Normal, Ill.	Coextensive with McLean County, Ill.
Boise City, Idaho	Coextensive with Ada County, Idaho
Boston, Mass.	Consists of Beverly, Lynn, Peabody, and Salem cities, and Boxford, Danvers, Hamilton, Lynnfield, Manchester, Marblehead, Middleton, Nahant, Saugus, Swampscott, Topsfield, and Wenham towns in Essex County; Cambridge, Everett, Malden, Medford, Melrose, Newton, Somerville, Waltham, and Woburn cities, and Acton, Arlington, Ashland, Bedford, Belmont, Boxborough, Burlington, Carlisle, Concord, Framingham, Holliston, Lexington, Lincoln, Natick, North Reading, Reading, Sherborn, Stoneham, Sudbury, Wakefield, Watertown, Wayland, Weston, Wilmington, and Winchester towns in Middlesex County; Quincy city, and Bellingham, Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Foxborough, Franklin, Holbrook, Medfield, Medway, Millis, Milton, Needham, Norfolk, Norwood, Randolph, Sharon, Stoughton, Walpole, Wellesley, Westwood, Weymouth, and Wrentham towns in Norfolk County; Abington, Duxbury, Hanover, Hanson, Hingham, Hull, Kingston, Marshfield, Norwell, Pembroke, Rockland, Scituate towns in Plymouth County; and Boston, Chelsea, and Revere cities, and Winthrop town in Suffolk County, Mass.
Bradenton, Fla.[3]	Coextensive with Manatee County, Fla.
Bridgeport, Conn.	Consists of Bridgeport and Shelton cities, and Easton, Fairfield, Monroe, Stratford, and Trumbull towns in Fairfield County; and Derby and Milford cities in New Haven County, Conn.
Bristol, Conn.	Consists of Bristol city and Burlington town in Hartford County, and Plymouth town in Litchfield County, Conn.
Brockton, Mass.	Consists of Easton town in Bristol County; Avon town in Norfolk County; and Brockton city, and Bridgewater, East Bridgewater, Halifax, West Bridgewater, and Whitman towns in Plymouth County, Mass.
Brownsville-Harlingen-San Benito, Tex.	Coextensive with Cameron County, Tex.
Bryan-College Station, Tex.	Coextensive with Brazos County, Tex.
Buffalo, N.Y.	Consists of Erie and Niagara Counties, N.Y.
Burlington, N.C.	Coextensive with Alamance County, N.C.
Canton, Ohio	Consists of Carroll and Stark Counties, Ohio
Cedar Rapids, Iowa	Coextensive with Linn County, Iowa
Champaign-Urbana-Rantoul, Ill.	Coextensive with Champaign County, Ill.
Charleston-North Charleston, S.C.[6]	Consists of Berkeley, Charleston, and Dorchester Counties, S.C.
Charleston, W. Va.	Consists of Kanawha and Putnam Counties, W. Va.
Charlotte-Gastonia, N.C.	Consists of Gaston, Mecklenburg, and Union Counties, N.C.

See footnotes at end of appendix.

SMSA'S—Con.

Chattanooga, Tenn.-Ga.	Consists of Hamilton, Marion, and Sequatchie Counties, Tenn.; and Catoosa, Dade, and Walker Counties, Ga.
Chicago, Ill.	Consists of Cook, Du Page, Kane, Lake, McHenry, and Will Counties, Ill.
Cincinnati, Ohio-Ky.-Ind.	Consists of Clermont, Hamilton, and Warren Counties, Ohio; Boone, Campbell, and Kenton Counties, Ky.; and Dearborn County, Ind.
Clarksville-Hopkinsville, Tenn.-Ky.[3]	Consists of Montgomery County, Tenn. and Christian County, Ky.
Cleveland, Ohio	Consists of Cuyahoga, Geauga, Lake, and Medina Counties, Ohio
Colorado Springs, Colo.	Consists of El Paso and Teller Counties, Colo.
Columbia, Mo.	Coextensive with Boone County, Mo.
Columbia, S.C.	Consists of Lexington and Richland Counties, S.C.
Columbus, Ga.-Ala.	Consists of Chattahoochee County and Columbus[5] (consolidated government), Ga., and Russell County, Ala.
Columbus, Ohio	Consists of Delaware, Fairfield, Franklin, Madison, and Pickaway Counties, Ohio
Corpus Christi, Tex.	Consists of Nueces and San Patricio Counties, Tex.
Dallas-Fort Worth, Tex.	Consists of Collin, Dallas, Denton, Ellis, Hood, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise Counties, Tex.
Danbury, Conn.	Consists of Danbury city and Bethel, Brookfield, New Fairfield, Newtown, and Redding towns in Fairfield County; and New Milford town in Litchfield County, Conn.
Davenport-Rock Island-Moline, Iowa-Ill.	Consists of Scott County, Iowa and Henry and Rock Island Counties, Ill.
Dayton, Ohio	Consists of Greene, Miami, Montgomery, and Preble Counties, Ohio
Daytona Beach, Fla.	Coextensive with Volusia County, Fla.
Decatur, Ill.	Coextensive with Macon County, Ill.
Denver-Boulder, Colo.	Consists of Adams, Arapahoe, Boulder, Denver, Douglas, Gilpin, and Jefferson Counties, Colo.
Des Moines, Iowa	Consists of Polk and Warren Counties, Iowa
Detroit, Mich.	Consists of Lapeer, Livingston, Macomb, Oakland, St. Clair, and Wayne Counties, Mich.
Dubuque, Iowa	Coextensive with Dubuque County, Iowa
Duluth-Superior, Minn.-Wis.	Consists of St. Louis County, Minn. and Douglas County, Wis.
Eau Claire, Wis.[3]	Consists of Chippewa and Eau Claire Counties, Wis.
El Paso, Tex.	Coextensive with El Paso County, Tex.
Elmira, N.Y.	Coextensive with Chemung County, N.Y.
Erie, Pa.	Coextensive with Erie County, Pa.
Eugene-Springfield, Oreg.	Coextensive with Lane County, Oreg.
Evansville, Ind.-Ky.	Consists of Gibson, Posey, Vanderburgh, and Warrick Counties, Ind. and Henderson County, Ky.
Fall River, Mass.-R.I.	Consists of Fall River city and Dighton, Somerset, Swansea, and Westport towns in Bristol County, Mass.; and Little Compton, Portsmouth, and Tiverton towns in Newport County, R.I.
Fargo-Moorhead, N. Dak.-Minn.	Consists of Cass County, N. Dak. and Clay County, Minn.
Fayetteville, N.C.	Coextensive with Cumberland County, N.C.
Fayetteville-Springdale, Ark.	Consists of Benton and Washington Counties, Ark.
Fitchburg-Leominster, Mass.	Consists of Shirley and Townsend towns in Middlesex County, and Fitchburg and Leominster cities and Lunenburg and Westminster towns in Worcester County, Mass.
Flint, Mich.	Consists of Genesee and Shiawassee Counties, Mich.
Florence, Ala.	Consists of Colbert and Lauderdale Counties, Ala.
Fort Collins, Colo.[3]	Coextensive with Larimer County, Colo.
Fort Lauderdale-Hollywood, Fla.	Coextensive with Broward County, Fla.
Fort Myers, Fla.	Coextensive with Lee County, Fla.
Fort Smith, Ark.-Okla.	Consists of Crawford and Sebastian Counties, Ark. and Le Flore and Sequoyah Counties, Okla.

See footnotes at end of appendix.

SMSA'S—Con.

Fort Wayne, Ind.	Consists of Adams, Allen, De Kalb, and Wells Counties, Ind.
Fresno, Calif.	Coextensive with Fresno County, Calif.
Gadsden, Ala.	Coextensive with Etowah County, Ala.
Gainesville, Fla.	Coextensive with Alachua County, Fla.
Galveston-Texas City, Tex.	Coextensive with Galveston County, Tex.
Gary-Hammond-East Chicago, Ind.	Consists of Lake and Porter Counties, Ind.
Grand Forks, N. Dak.-Minn.[3]	Consists of Grand Forks County, N. Dak. and Polk County, Minn.
Grand Rapids, Mich.	Consists of Kent and Ottawa Counties, Mich.
Great Falls, Mont.	Coextensive with Cascade County, Mont.
Greeley, Colo.[3]	Coextensive with Weld County, Colo.
Green Bay, Wis.	Coextensive with Brown County, Wis.
Greensboro—Winston-Salem—High Point, N.C.	Consists of Davidson, Forsyth, Guilford, Randolph, Stokes, and Yadkin Counties, N.C.
Greenville-Spartanburg, S.C.	Consists of Greenville, Pickens, and Spartanburg Counties, S.C.
Hamilton-Middletown, Ohio	Coextensive with Butler County, Ohio
Harrisburg, Pa.	Consists of Cumberland, Dauphin, and Perry Counties, Pa.
Hartford, Conn.	Consists of Hartford city and Avon, Bloomfield, Canton, East Granby, East Hartford, East Windsor, Enfield, Farmington, Glastonbury, Granby, Manchester, Marlborough, Newington, Rocky Hill, Simsbury, South Windsor, Suffield, West Hartford, Wethersfield, Windsor, and Windsor Locks towns in Hartford County; New Hartford town in Litchfield County; Cromwell, East Hampton, and Portland towns in Middlesex County; Colchester town in New London County; and Andover, Bolton, Columbia, Coventry, Ellington, Hebron, Stafford, Tolland, Vernon, and Willington towns in Tolland County, Conn.
Honolulu, Hawaii	Coextensive with Honolulu County, Hawaii
Houston, Tex.	Consists of Brazoria, Fort Bend, Harris, Liberty, Montgomery, and Waller Counties, Tex.
Huntington-Ashland, W. Va.-Ky.-Ohio	Consists of Cabell and Wayne Counties, W. Va.; Boyd and Greenup Counties, Ky.; and Lawrence County, Ohio
Huntsville, Ala.	Consists of Limestone, Madison, and Marshall Counties, Ala.
Indianapolis, Ind.	Consists of Boone, Hamilton, Hancock, Hendricks, Johnson, Marion, Morgan, and Shelby Counties, Ind.
Jackson, Mich.	Coextensive with Jackson County, Mich.
Jackson, Miss.	Consists of Hinds and Rankin Counties, Miss.
Jacksonville, Fla.	Consists of Baker, Clay, Duval, Nassau, and St. Johns Counties, Fla.
Jersey City, N.J.	Coextensive with Hudson County, N.J.
Johnson City-Kingsport-Bristol, Tenn.-Va.[7]	Consists of Carter, Hawkins, Sullivan, Unicoi, and Washington Counties, Tenn., and Bristol[5] city and Scott and Washington Counties, Va.
Johnstown, Pa.	Consists of Cambria and Somerset Counties, Pa.
Kalamazoo-Portage, Mich.	Consists of Kalamazoo and Van Buren Counties, Mich.
Kankakee, Ill.[3]	Coextensive with Kankakee County, Ill.
Kansas City, Mo.-Kans.	Consists of Cass, Clay, Jackson, Platte, and Ray Counties, Mo., and Johnson and Wyandotte Counties, Kans.
Kenosha, Wis.	Coextensive with Kenosha County, Wis.
Killeen-Temple, Tex.	Consists of Bell and Coryell Counties, Tex.
Knoxville, Tenn.	Consists of Anderson, Blount, Knox, and Union Counties, Tenn.
Kokomo, Ind.[3]	Consists of Howard and Tipton Counties, Ind.
La Crosse, Wis.	Coextensive with La Crosse County, Wis.
Lafayette, La.	Coextensive with Lafayette Parish, La.
Lafayette-West Lafayette, Ind.	Coextensive with Tippecanoe County, Ind.
Lake Charles, La.	Coextensive with Calcasieu Parish, La.

See footnotes at end of appendix.

SMSA'S—Con.

Lakeland-Winter Haven, Fla.	Coextensive with Polk County, Fla.
Lancaster, Pa.	Coextensive with Lancaster County, Pa.
Lansing-East Lansing, Mich.	Consists of Clinton, Eaton, Ingham, and Ionia Counties, Mich.
Laredo, Tex.	Coextensive with Webb County, Tex.
Las Vegas, Nev.	Coextensive with Clark County, Nev.
Lawrence, Kans.[5]	Coextensive with Douglas County, Kans.
Lawrence-Haverhill, Mass.-N.H.	Consists of Haverhill and Lawrence cities and Amesbury, Andover, Georgetown, Groveland, Merrimac, Methuen, North Andover, Salisbury, and West Newbury towns in Essex County, Mass. and Atkinson, Hampstead, Kingston, Newton, Plaistow, Salem, and Windham towns in Rockingham County, N.H.
Lawton, Okla.	Coextensive with Comanche County, Okla.
Lewiston-Auburn, Maine	Consists of Auburn and Lewiston cities and Lisbon town in Androscoggin County, Maine
Lexington-Fayette, Ky.[8]	Consists of Bourbon, Clark, Fayette, Jessamine, Scott, and Woodford Counties, Ky.
Lima, Ohio	Consists of Allen, Auglaize, Putnam, and Van Wert Counties, Ohio
Lincoln, Nebr.	Coextensive with Lancaster County, Nebr.
Little Rock-North Little Rock, Ark.	Consists of Pulaski and Saline Counties, Ark.
Long Branch-Asbury Park, N.J.	Coextensive with Monmouth County, N.J.
Longview, Tex.[3]	Consists of Gregg and Harrison Counties, Tex.
Lorain-Elyria, Ohio	Coextensive with Lorain County, Ohio
Los Angeles-Long Beach, Calif.	Coextensive with Los Angeles County, Calif.
Louisville, Ky-Ind.	Consists of Bullitt, Jefferson, and Oldham Counties, Ky. and Clark and Floyd Counties, Ind.
Lowell, Mass.-N.H.	Consists of Lowell city and Billerica, Chelmsford, Dracut, Tewksbury, Tyngsborough, and Westford towns in Middlesex County, Mass.; and Pelham town in Hillsborough County, N.H.
Lubbock, Tex.	Coextensive with Lubbock County, Tex.
Lynchburg, Va.	Consists of Lynchburg[5] city and Amherst, Appomattox, and Campbell Counties, Va.
Macon, Ga.	Consists of Bibb, Houston, Jones, and Twiggs Counties, Ga.
Madison, Wis.	Coextensive with Dane County, Wis.
Manchester, N.H.	Consists of Manchester city and Bedford and Goffstown towns in Hillsborough County; Allenstown, Hooksett, and Pembroke towns in Merrimack County; and Derry and Londonderry towns in Rockingham County, N.H.
Mansfield, Ohio	Coextensive with Richland County, Ohio
McAllen-Pharr-Edinburg, Tex.	Coextensive with Hidalgo County, Tex.
Melbourne-Titusville-Cocoa, Fla.	Coextensive with Brevard County, Fla.
Memphis, Tenn.-Ark.-Miss.	Consists of Shelby and Tipton Counties, Tenn.; Crittenden County, Ark.; and De Soto County, Miss.
Meriden, Conn.	Coextensive with Meriden city in New Haven County, Conn.
Miami, Fla.	Coextensive with Dade County, Fla.
Midland, Tex.	Coextensive with Midland County, Tex.
Milwaukee, Wis.	Consists of Milwaukee, Ozaukee, Washington, and Waukesha Counties, Wis.
Minneapolis-St. Paul, Minn.-Wis.	Consists of Anoka, Carver, Chisago, Dakota, Hennepin, Ramsey, Scott, Washington, and Wright Counties, Minn. and St. Croix County, Wis.
Mobile, Ala.	Consists of Baldwin and Mobile Counties, Ala.
Modesto, Calif.	Coextensive with Stanislaus County, Calif.
Monroe, La.	Coextensive with Ouachita Parish, La.
Montgomery, Ala.	Consists of Autauga, Elmore, and Montgomery Counties, Ala.
Muncie, Ind.	Coextensive with Delaware County, Ind.
Muskegon-North Shores-Muskegon Heights, Mich.[9]	Consists of Muskegon and Oceana Counties, Mich.

See footnotes at end of appendix.

SMSA'S—Con.

Nashua, N.H.	Consists of Nashua city and Amherst, Hudson, Merrimack, and Milford towns in Hillsborough County, N.H.
Nashville-Davidson, Tenn.	Consists of Cheatham, Davidson, Dickson, Robertson, Rutherford, Sumner, Williamson, and Wilson Counties, Tenn.
Nassau-Suffolk, N.Y.	Consists of Nassau and Suffolk Counties, N.Y.
New Bedford, Mass.	Consists of New Bedford city and Acushnet, Dartmouth, Fairhaven, and Freetown towns in Bristol County; and Lakeville, Marion, and Mattapoisett towns in Plymouth County, Mass.
New Britain, Conn.	Consists of New Britain city and Berlin, Plainville, and Southington towns in Hartford County, Conn.
New Brunswick-Perth Amboy-Sayreville, N.J.	Coextensive with Middlesex County, N.J.
New Haven-West Haven, Conn.[10]	Consists of Clinton town in Middlesex County; and New Haven and West Haven cities and Bethany, Branford, East Haven, Guilford, Hamden, Madison, North Branford, North Haven, Orange, Wallingford, and Woodbridge towns in New Haven County, Conn.
New London-Norwich, Conn.-R.I.	Consists of Old Saybrook town in Middlesex County; New London and Norwich cities and Bozrah, East Lyme, Griswold, Groton, Ledyard, Lisbon, Montville, Old Lyme, Preston, Sprague, Stonington, and Waterford towns in New London County, Conn.; and Hopkinton and Westerly towns in Washington County, R.I.
New Orleans, La.	Consists of Jefferson, Orleans, St. Bernard, and St. Tammany Parishes, La.
New York, N.Y.-N.J.	Consists of Bronx, Kings, New York, Putnam, Queens, Richmond, Rockland, and Westchester Counties, N.Y. and Bergen County, N.J.
Newark, N.J.	Consists of Essex, Morris, Somerset, and Union Counties, N.J.
Newport News-Hampton, Va.[11]	Consists of Hampton,[5] Newport News,[5] Poquoson,[5] and Williamsburg[5] cities and Gloucester, James City, and York Counties, Va.
Norfolk-Virginia Beach-Portsmouth, Va.-N.C.[12]	Consists of Chesapeake,[5] Norfolk,[5] Portsmouth,[5] Suffolk,[5] and Virginia Beach[5] cities, Va. and Currituck County, N.C.
Northeast Pennsylvania	Consists of Lackawanna, Luzerne, and Monroe Counties, Pa.
Norwalk, Conn.	Consists of Norwalk city and Weston, Westport, and Wilton towns in Fairfield County, Conn.
Odessa, Tex.	Coextensive with Ector County, Tex.
Oklahoma City, Okla.	Consists of Canadian, Cleveland, McClain, Oklahoma, and Pottawatomie Counties, Okla.
Omaha, Nebr.-Iowa	Consists of Douglas and Sarpy Counties, Nebr. and Pottawattamie County, Iowa
Orlando, Fla.	Consists of Orange, Osceola, and Seminole Counties, Fla.
Owensboro, Ky.	Coextensive with Daviess County, Ky.
Oxnard-Simi Valley-Ventura, Calif.	Coextensive with Ventura County, Calif.
Panama City, Fla.[3]	Coextensive with Bay County, Fla.
Parkersburg-Marietta, W. Va.-Ohio	Consists of Wirt and Wood Counties, W. Va. and Washington County, Ohio
Pascagoula-Moss Point, Miss.[3]	Coextensive with Jackson County, Miss.
Paterson-Clifton-Passaic, N.J.	Coextensive with Passaic County, N.J.
Pensacola, Fla.	Consists of Escambia and Santa Rosa Counties, Fla.
Peoria, Ill.	Consists of Peoria, Tazewell, and Woodford Counties, Ill.
Petersburg-Colonial Heights-Hopewell, Va.	Consists of Colonial Heights,[5] Hopewell,[5] and Petersburg[5] cities and Dinwiddie and Prince George Counties, Va.
Philadelphia, Pa.-N.J.	Consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa.; and Burlington, Camden, and Gloucester Counties, N.J.
Phoenix, Ariz.	Coextensive with Maricopa County, Ariz.
Pine Bluff, Ark.	Coextensive with Jefferson County, Ark.
Pittsburgh, Pa.	Consists of Allegheny, Beaver, Washington, and Westmoreland Counties, Pa.
Pittsfield, Mass.	Consists of Pittsfield city and Adams, Cheshire, Dalton, Lanesborough, Lee, Lenox, and Stockbridge towns in Berkshire County, Mass.

See footnotes at end of appendix.

SMSA'S—Con.

Portland, Maine	Consists of Portland, South Portland, and Westbrook cities and Cape Elizabeth, Cumberland, Falmouth, Freeport, Gorham, Scarborough, Windham, and Yarmouth towns in Cumberland County; and Saco city and Old Orchard Beach town in York County, Maine
Portland, Oreg.-Wash.	Consists of Clackamas, Multnomah, and Washington Counties, Oreg. and Clark County, Wash.
Poughkeepsie, N.Y.	Coextensive with Dutchess County, N.Y.
Providence-Warwick-Pawtucket, R.I.-Mass.	Consists of Barrington, Bristol, and Warren towns in Bristol County; Warwick city and Coventry, East Greenwich, and West Warwick towns in Kent County; Jamestown town in Newport County; Central Falls, Cranston, East Providence, Pawtucket, Providence, and Woonsocket cities and Burrillville, Cumberland, Johnston, Lincoln, North Providence, North Smithfield, Scituate, and Smithfield towns in Providence County; and Narragansett, North Kingstown, and South Kingstown towns in Washington County, R.I.; Attleboro city and North Attleborough, Norton, Rehoboth, and Seekonk towns in Bristol County; Plainville town in Norfolk County; and Blackstone and Millville towns in Worcester County, Mass.
Provo-Orem, Utah	Coextensive with Utah County, Utah
Pueblo, Colo.	Coextensive with Pueblo County, Colo.
Racine, Wis.	Coextensive with Racine County, Wis.
Raleigh-Durham, N.C.	Consists of Durham, Orange, and Wake Counties, N.C.
Reading, Pa.	Coextensive with Berks County, Pa.
Reno, Nev.	Coextensive with Washoe County, Nev.
Richland-Kennewick, Wash.	Consists of Benton and Franklin Counties, Wash.
Richmond, Va.[13]	Consists of Richmond[5] city and Charles City, Chesterfield, Goochland, Hanover, Henrico, New Kent, and Powhatan Counties, Va.
Riverside-San Bernardino-Ontario, Calif.	Consists of Riverside and San Bernardino Counties, Calif.
Roanoke, Va.	Consists of Roanoke[5] and Salem[5] cities and Botetourt, Craig, and Roanoke Counties, Va.
Rochester, Minn.	Coextensive with Olmsted County, Minn.
Rochester, N.Y.	Consists of Livingston, Monroe, Ontario, Orleans, and Wayne Counties, N.Y.
Rockford, Ill.	Consists of Boone and Winnebago Counties, Ill.
Sacramento, Calif.	Consists of Placer, Sacramento, and Yolo Counties, Calif.
Saginaw, Mich.	Coextensive with Saginaw County, Mich.
St. Cloud, Minn.	Consists of Benton, Sherburne, and Stearns Counties, Minn.
St. Joseph, Mo.	Consists of Andrew and Buchanan Counties, Mo.
St. Louis, Mo.-Ill.	Consists of St. Louis[5] city and Franklin, Jefferson, St. Charles, and St. Louis Counties, Mo.; and Clinton, Madison, Monroe, and St. Clair Counties, Ill.
Salem, Oreg.	Consists of Marion and Polk Counties, Oreg.
Salinas-Seaside-Monterey, Calif.	Coextensive with Monterey County, Calif.
Salt Lake City-Ogden, Utah	Consists of Davis, Salt Lake, Tooele, and Weber Counties, Utah
San Angelo, Tex.	Coextensive with Tom Green County, Tex.
San Antonio, Tex.	Consists of Bexar, Comal, and Guadalupe Counties, Tex.
San Diego, Calif.	Coextensive with San Diego County, Calif.
San Francisco-Oakland, Calif.	Consists of Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties, Calif.
San Jose, Calif.	Coextensive with Santa Clara County, Calif.
Santa Barbara-Santa Maria-Lompoc, Calif.	Coextensive with Santa Barbara County, Calif.
Santa Cruz, Calif.	Coextensive with Santa Cruz County, Calif
Santa Rosa, Calif.	Coextensive with Sonoma County, Calif.
Sarasota, Fla.	Coextensive with Sarasota County, Fla.
Savannah, Ga.	Consists of Bryan, Chatham, and Effingham Counties, Ga.
Seattle-Everett, Wash.	Consists of King and Snohomish Counties, Wash.

See footnotes at end of appendix.

SMSA'S—Con.

Sherman-Denison, Tex.	Coextensive with Grayson County, Tex.
Shreveport, La.	Consists of Bossier, Caddo, and Webster Parishes, La.
Sioux City, Iowa-Nebr.	Consists of Woodbury County, Iowa and Dakota County, Nebr.
Sioux Falls, S. Dak.	Coextensive with Minnehaha County, S. Dak.
South Bend, Ind.	Consists of Marshall and St. Joseph Counties, Ind.
Spokane, Wash.	Coextensive with Spokane County, Wash.
Springfield, Ill.	Consists of Menard and Sangamon Counties, Ill.
Springfield, Mo.	Consists of Christian and Greene Counties, Mo.
Springfield, Ohio	Consists of Champaign and Clark Counties, Ohio
Springfield-Chicopee-Holyoke, Mass.-Conn.	Consists of Chicopee, Holyoke, Springfield, and Westfield cities and Agawam, East Longmeadow, Hampden, Longmeadow, Ludlow, Monson, Palmer, Southwick, West Springfield, and Wilbraham towns in Hampden County; Northampton city and Belchertown, Easthampton, Granby, Hadley, Hatfield, Southampton, and South Hadley towns in Hampshire County; Warren town in Worcester County, Mass.; and Somers town in Tolland County, Conn.
Stamford, Conn.	Consists of Stamford city and Darien, Greenwich, and New Canaan towns in Fairfield County, Conn.
Steubenville-Weirton, Ohio-W. Va.	Consists of Jefferson County, Ohio and Brooke and Hancock Counties, W. Va.
Stockton, Calif.	Coextensive with San Joaquin County, Calif.
Syracuse, N.Y.	Consists of Madison, Onondaga, and Oswego Counties, N.Y.
Tacoma, Wash.	Coextensive with Pierce County, Wash.
Tallahassee, Fla.	Consists of Leon and Wakulla Counties, Fla.
Tampa-St. Petersburg, Fla.	Consists of Hillsborough, Pasco, and Pinellas Counties, Fla.
Terre Haute, Ind.	Consists of Clay, Sullivan, Vermillion, and Vigo Counties, Ind.
Texarkana, Tex.-Texarkana, Ark.	Consists of Bowie County, Tex. and Little River and Miller Counties, Ark.
Toledo, Ohio-Mich.	Consists of Fulton, Lucas, Ottawa, and Wood Counties, Ohio and Monroe County, Mich.
Topeka, Kans.	Consists of Jefferson, Osage, and Shawnee Counties, Kans.
Trenton, N.J.	Coextensive with Mercer County, N.J.
Tucson, Ariz.	Coextensive with Pima County, Ariz.
Tulsa, Okla.	Consists of Creek, Mayes, Osage, Rogers, Tulsa, and Wagoner Counties, Okla.
Tuscaloosa, Ala.	Coextensive with Tuscaloosa County, Ala.
Tyler, Tex.	Coextensive with Smith County, Tex.
Utica-Rome, N.Y.	Consists of Herkimer and Oneida Counties, N.Y.
Vallejo-Fairfield-Napa, Calif.	Consists of Napa and Solano Counties, Calif.
Vineland-Millville-Bridgeton, N.J.	Coextensive with Cumberland County, N.J.
Waco, Tex.	Coextensive with McLennan County, Tex.
Washington, D.C.-Md.-Va.[14]	Consists of District of Columbia; Charles, Montgomery, and Prince Georges Counties, Md; and Alexandria,[5] Fairfax,[5] Falls Church,[5] Manassas,[5] and Manassas Park[5] cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Va.
Waterbury, Conn.	Consists of Thomaston, Watertown, and Woodbury towns in Litchfield County; and Waterbury city, Naugatuck borough, and Beacon Falls, Cheshire, Middlebury, Prospect, Southbury, and Wolcott towns in New Haven County, Conn.
Waterloo-Cedar Falls, Iowa	Coextensive with Black Hawk County, Iowa
West Palm Beach-Boca Raton, Fla.	Coextensive with Palm Beach County, Fla.
Wheeling, W. Va.-Ohio	Consists of Marshall and Ohio Counties, W. Va. and Belmont County, Ohio
Wichita, Kans.	Consists of Butler and Sedgwick Counties, Kans.
Wichita Falls, Tex.	Consists of Clay and Wichita Counties, Tex.
Williamsport, Pa.	Coextensive with Lycoming County, Pa.
Wilmington, Del.-N.J.-Md.	Consists of New Castle County, Del.; Salem County, N.J.; and Cecil County, Md.
Wilmington, N.C.	Consists of Brunswick and New Hanover Counties, N.C.

See footnotes at end of appendix.

SMSA'S—Con.

Worcester, Mass.	Consists of Worcester city and Auburn, Berlin, Boylston, Brookfield, Charlton, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, Northbridge, North Brookfield, Oxford, Paxton, Shrewsbury, Spencer, Sterling, Sutton, Upton, Uxbridge, Webster, Westborough, and West Boylston towns in Worcester County, Mass.
Yakima, Wash.	Coextensive with Yakima County, Wash.
York, Pa.	Consists of Adams and York Counties, Pa.
Youngstown-Warren, Ohio	Consists of Mahoning and Trumbull Counties, Ohio

[1] Retitled from Chicago-Northeastern Indiana SCA since 1972 Economic Censuses; but no boundary change.
[2] Includes New York-Northeastern New Jersey SCA and Long Branch-Asbury Park, N.J., Stamford, Conn., and Norwalk, Conn., SMSA's added since 1972 Economic Censuses.
[3] Newly designated SMSA since 1972 Economic Censuses.
[4] Williamson County, Tex. added since 1972 Economic Censuses.
[5] Independent of any county and considered a county equivalent.
[6] Retitled from Charleston, S.C., SMSA since 1972 Economic Censuses.
[7] Retitled from Kingsport-Bristol, Tenn.-Va., SMSA and Carter, Unicorn, and Washington Counties, Tenn., added since 1972 Economic Censuses.
[8] Retitled from Lexington, Ky., SMSA since 1972 Economic Censuses.
[9] Retitled from Muskegon-Muskegon Heights, Mich., SMSA since 1972 Economic Censuses.
[10] Killingworth town in Middlesex County was deleted since 1972 Economic Censuses.
[11] Poquoson city was added since 1972 Economic Censuses.
[12] Nansemond city was deleted since 1972 Economic Censuses.
[13] New Kent County added since 1972 Economic Censuses.
[14] Manassas and Manassas Park cities added since 1972 Economic Censuses.

Abbreviations Used for State Names
(Alaska, Hawaii, Idaho, Iowa, Maine, Ohio and Utah are not abbreviated)

Ala.	Alabama	Ind.	Indiana	N.C.	North Carolina	R.I.	Rhode Island
Ariz.	Arizona	Kans.	Kansas	N. Dak.	North Dakota	S.C.	South Carolina
Ark.	Arkansas	Ky.	Kentucky	Nebr.	Nebraska	S. Dak.	South Dakota
Calif.	California	La.	Louisiana	Nev.	Nevada	Tenn.	Tennessee
Colo.	Colorado	Mass.	Massachusetts	N.H.	New Hampshire	Tex.	Texas
Conn.	Connecticut	Md.	Maryland	N.J.	New Jersey	Va.	Virginia
D.C.	District of Columbia	Mich.	Michigan	N. Mex.	New Mexico	Vt.	Vermont
Del.	Delaware	Minn.	Minnesota	N.Y.	New York	Wash.	Washington
Fla.	Florida	Miss.	Mississippi	Okla.	Oklahoma	Wis.	Wisconsin
Ga.	Georgia	Mo.	Missouri	Oreg.	Oregon	W. Va.	West Virginia
Ill.	Illinois	Mont.	Montana	Pa.	Pennsylvania	Wyo.	Wyoming

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Manufactures. 1977.
1977 census of manufactures.

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